CANADIAN JOURNAL OF CHEMISTRY

JOURNAL CANADIEN DE CHIMIE

VOLUME 57, 1979

Author Index/Index des auteurs

Under each name are listed, in chronological order of publication, all articles in which an author has participated/ Chaque notice indique, dans l'ordre chonologique de publication, tous les articles auxquels l'auteur a participé

Abdel-Wahab, A.A.

Photolysis of diarylcadmium compounds in benzene. A.M. Osman, A.I. Khodair, A.A. Abdel-Wahab, and A.M. El-Khawaga,

Abraham, M.H.

Use of scaled-particle theory in the assessment of the Ph₄As+/Ph₄B⁻ assumption for single ions. M.H. Abraham and A. Nasehzadeh, 71.

Ahraham, M.H.

Thermodynamic studies in solution. Part IV. Solvent effect on the solvolysis of tert-butyl chloride. A new treatment of the experimental data. J.J.M. Ramos, J. Reisse, and M.H. Abraham, 500.

Thermodynamics of transfer of Ph₄C; scaled-particle theory and the PH₄As+/Ph₄B⁻ assumption for single ions. M.H. Abraham and A. Nasehzadeh, 2004.

Abu-Eittah, R.

The electron-donating properties of some phenylfurans. Charge transfer studies. R. Abu-Eittah and M.M. Hamed, 2337.

Ackrell, J.

Synthesis of 1,3-dihydro-2H-benzo-1,4-diazepin-2-ones and 1,2-dihydropyrazin-2-ones via iminophosphoranes. Mass spectra of 1,5-disubstituted-1,2-dihydropyrazin-2-ones. J. Ackrell, E. Galeazzi, J.M. Muchowski, and L. Tökés, 2696. Adeleke, B.B.

Electron spin resonance study of radical adducts of unsaturated dicarboxylic and tricarboxylic acids. B.B. Adeleke and J.A. Faniran, 1500.

Adeosun, S.O.

Electrical conductance and thermal behaviour of some manganese (II) carboxylates. S.O. Adeosun, 151.

The reactivity of allyl and propargyl alcohols with solvated electrons: temperature and solvent effects. A.M. Afanassiev, K. Okazaki, and G.R. Freeman, 839.

A convergent route to phthalide isoquinoline alkaloids via directed metalation of tertiary benzamides. S.O. de Silva, I. Ahmad, and V. Snieckus, 1598.

Ahmad, M.

Carbonyl oxygen exchange of glycol monoesters. Rate and equilibrium constants for the formation of a tetrahedral intermediate. R.A. McClelland, M. Ahmad, J. Bohonek, and S. Gedge, 1531.

Conformational analysis of acyclic compounds with oxygen-sulphur interactions. Part VI. Some 1-thioderivatives of 2-propanol and its acetates. F. Alcudia, J.L.G. Ruano, J. Rodriguez, and F. Sánchez, 2426.

Aleksandrowicz, P.

Cyanoethylation of the salts of cyanoguanidine in aprotic solvents. P. Aleksandrowicz, M. Bukowska, M. Maciejewski, and J. Prejzner, 2593.

Al-Farkh, Y.A.

Synthesis and spectroscopic studies of the pyrimidine-2(1H)thione derivatives. F.H. Al-Hajjar, Y.A. Al-Farkh, and H.S. Hamoud,

Al-Hajjar, F.H.

Synthesis and spectroscopic studies of the pyrimidine-2(1H)thione derivatives. F.H. Al-Hajjar, Y.A. Al-Farkh, and H.S. Hamoud, 2734.

Al-Hassan, J.M.

Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Eazby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 104.

Al-Hassan, J.M.

Erratum: Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Ezaby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 2538.

Ali, A.

Temperature and concentration dependence of fluidity of mixed hydrated melts of calcium- and nickel(II)-nitrates. N. Islam and A. Ali. 2028.

Ali, S.F.

Isotope effects in nucleophilic substitution reactions. II. Secondary α -deuterium kinetic isotope effects: a criterion of mechanism? K.C. Westaway and S.F. Ali, 1089.

Ali, S.F.

Isotope effects in nucleophilic substitution reactions. III. The effect of changing the leaving group on transition state structure in S_N 2 reactions. K.C. Westaway and S.F. Ali, 1354.

Allain, L.

Total synthesis of (\pm) -5 β ,8 α -androst-9(11)-ene-3,17-dione. M. Kakushima, L. Allain, R.A. Dickinson, P.S. White, and Z. Valenta, 3354.

Allen, M.S.

Chemical and microbiological remote functionalisation of (+)- and (-)-bornyl acetate. M.S. Allen, N. Darby, P. Salisbury, E.R. Sigurdson, and T. Money, 733.

Allman, T.

Triphenylphosphine complexes of mercury(II) acetate and fluoroacetates. Preparation, characterization, and spectral studies. T. Allman. R.G. Goel, and P. Pilon, 91.

Al-Massaad, F.

Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Eazby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 104.

Al-Massaad, F.

Erratum: Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Ezaby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 2538.

Alonso, S. del V.

Excess properties of cumene + p-dioxane system at 30°C. H.N. Sólimo, S. del V. Alonso, and M. Katz, 678.

Alper, H.

Dichotomous reactions of thioketones with tetracarbonylferrate. H. Alper, B. Marchand, and M. Tanaka, 598.

Alner, H.

An interesting azirine induced reaction of the cyclopentadienyliron dicarbonyl dimer. H. Alper and T. Sakakibara, 1541.

Aluotto, P.F.

A new method for the determination of the relative acidities of alcohols in alcoholic solutions. The nucleophilicities and competitive reactivities of alkoxides and phenoxides. W. Reeve, C.M. Erikson, and P.F. Aluotto, 2747.

Alyea, E.C.

Spectroscopic studies of mercury(II) acetate complexes of some tertiary phosphines. E.C. Alyea and S.A. Dias, 83.

Alvea, E.C.

Structural studies of steric effects in phosphine complexes. Part VII. Synthesis, crystal and molecular structure of the chloroperchloratotri(o-tolyl)phosphinemercury(II) dimer. E.C. Alyea, S. Dias, G. Ferguson, and M. Khan, 2217.

Andersen, R.J.

Clionamide, a major metabolite of the sponge Cliona celata Grant. R.J. Andersen and R.J. Stonard, 2325.

Andriamialisoa, R.Z.

Réarrangement du squelette de la catharanthine. IV. Nor-5 catharanthine et couplage avec la vindoline. R.Z. Andriamialisoa, N. Langlois, Y. Langlois, P. Potier et P. Bladon, 2572.

Ang, K.-P.

Free energy relationship of the equilibrium ionization constants of disulfonyl carbon acids in 80% (w/w) dimethyl sulfoxide – water solvent at 25°C. T.W.S. Lee and K.-P. Ang, 853.

Anker, W.

The crystal and molecular structure of syn-2,11-dithia[3,3]metacyclophane. W. Anker, G.W. Bushnell, and R.H. Mitchell, 3080.

Aragon, P.J.

The application of DPASV to the determination of the low temperature solubility of lead sulphate in sulphuric acid solutions. E.M.L. Valeriote, L.D. Gallop, and P.J. Aragon, 974.

Archer, C

Sur quelques sulfites de cations monovalents; étude structurale de LiCsSO₃ • 2H₂O. C. Archer, J. Durand, L. Cot et J.-L. Galigne, 899.

Arenas, J.F.

Contribution to the solution chemistry and polarographic behaviour of anthrapurpurin complexan. F. Capitan, A. Guiraum, J.L. Vilchez, and J.F. Arenas, 3243.

Armitage, M.A.

The application of resonant ion ejection to quadrupole ion storage mass spectrometry: a study of ion/molecule reactions in the QUISTOR. M.A. Armitage, J.E. Fulford, Duong-Nhu-Hoa, R.J. Hughes, and R.E. March, 2108.

Arnold, D.R.

Electronic excited states of small ring compounds. VII. Bicyclo[2.1.0]pentanes by the photocycloaddition of 1,2,3-triphenylcyclo-propene to fumaro- and maleonitrile. P.C. Wong and D.R. Arnold, 1037.

Arnold, D.R.

Photochemical and thermal rearrangements of some 3H-pyrazoles. W.J. Leigh and D.R. Arnold, 1186.

rnold, D.R.

The oxidation potentials of cis- and trans-1,2-diphenylcyclopropane and cis- and trans-2,3-diphenyloxirane. D.R. Arnold and P.C. Wong, 2098.

Arnold, D.R.

Substituent effects on the zero-field splitting parameters of diarylmethylene. Evidence for merostabilization in appropriately substituted diphenylmethylenes. R.W.R. Humphreys and D.R. Arnold, 2652.

Ashbrook, A.W.

Chromium exchange between chromium(II) and benzylchromium(III) ions. M. Parris and A.W. Ashbrook, 1233.

Ashy, M.A.A.

Polarographic reduction of phenolphthalein, cresolphthalein, thymolphthalein, and α -naphtholphthalein in aqueous and nonaqueous ethanolic solutions. M.M. Ghoneim and M.A.A. Ashy, 1294.

Aslam, M.

Organic sulfur mechanisms. 21. The reaction of arylsulfenes with sulfur dioxide. J.F. King and M. Aslam, 3278.

Assef, G

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie I. Synthèse et études physicochimiques. J.Kister, G. Assef, G. Mille et J. Metzger, 813.

Assef, G.

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie II. Réarrangement et réaction parasites. J. Kister, G. Assef, G. Mille et J. Metzger, 822.

Atchekzai, H.-R.

Etude chimique et spectroscopique du système B(SCH₃)₃-B(NCS)₃. H.-R. Atchekzai, H. Mongeot, J. Dazord et J.-P. Tuchagues, 1122.

Aubke, F.

The synthesis and characterisation of the trifluoromethylsulfates of silver(II) and gold(III). P.C. Leung, K.C. Lee, and F. Aubke, 326.

Aubke, F.

Fluorosulfates of palladium. Part 2. The hexakis(fluorosulfato)palladate(IV) ion and palladium(II) hexakis(fluorosulfato)metallates(IV). K.C. Lee and F. Aubke, 2058.

Auclair, S

Photolyse du méthyl-2-butène-1, du méthyl-3-butène-1 et du *cis*-pentène-2 à 174, 163 et 147 nm. G.J. Collin, H. Deslauriers et S. Auclair, 863.

Aue. W.A.

A gas chromatographic detector based on the quenching of luminescence from a P₄/O₂ cold flame. W.A. Aue and Z.M. Mielniczuk, 1238.

Auksi, H.

On the relationships between ¹⁸O-transfer, diastereotopic selectivity, and asymmetric induction in an intramolecular Pummerer reaction. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2404.

Auksi, H.

Cyclization of cysteinylglycine sulfoxides under Pummerer reaction conditions. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2412.

Auksi, H.

The synthesis of bicyclo{2.2.2} octenones via intramolecular Diels-Alder reactions of modified Wessely oxidation products. P. Yates and H. Auksi, 2853.

Avendano, C

Stereochemistry of the Bucherer-Bergs and Strecker reactions of tropinone, cis-bicyclo[3.3.0]octan-3-one and cis-3,4-dimethylcyclopentanone. G.G. Trigo, C. Avendaño, E. Santos, J.T. Edward, and S.C. Wong, 1456.

Avevard, R.

Salt desorption from surfaces of non-aqueous solvents. R. Aveyard and Y. Thompson, 856.

Aycard, J.-P.

Structure et réactivité. III. Evolutions stéréochimiques et chemins réactionnels des radicaux cyclohexyles substitués en 2 et cyclohexényles substitués en 3 (réaction de Kochi). M. Monnier et J.-P. Aycard, 1257.

Avcard, J.-P.

Structure et réactivité. IV. Diastéréosélectivité de la réduction de cétones par le borohydrure de sodium. De l'influence de l'effet de champs de substituants polaires éloignés. J.-P. Aycard, R. Lafrance et B. Boyer, 2823.

Aver. W.A.

A new type of *Lycopodium* alkaloid. The C₃₀N₃ alkaloids from *Lycopodium lucidulum*. W.A. Ayer, L.M. Browne, Y. Nakahara, M. Tori, and L.T.J. Delbaere, 1105.

Ayer, W.A.

Metabolites of bird's nest fungi. Part 11. Diterpenoid metabolites of Cyathus earlei Lloyd. W.A. Ayer and S.P. Lee, 3332.

Aver, W.A.

Metabolites of bird's nest fungi. Part 12. Studies on the biosynthesis of the cyathins. W.A. Ayer, S.P. Lee, and T.T. Nakashima, 3338.

Ayub, A.L.

The reactions of atomic oxygen with 1-propanol and 2-propanol. A.L. Ayub and J.M. Roscoe, 1269.

Bachmann, E.F.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Back, M.H.

The decomposition of cyclobutanone vapor induced by infrared radiation from a pulsed CO₂ TEA laser. M.H. Back and R.A. Back, 1511.

Back, R.A.

Erratum: Enrichment of nitrogen-15 by the direct laser photolysis of ammonia- d_3 in the $\tilde{A}-\tilde{X}$ transition. P.A. Hackett, R.A. Back, and S. Koda, 796.

Back, R.A.

Decomposition of vinyl chloride induced by multiphoton absorption of infrared radiation. I. Decomposition yields. A. Gandini, C. Willis, R.A. Back, and J.M. Parsons, 953.

Back, R.A.

The decomposition of cyclobutanone vapor induced by infrared radiation from a pulsed CO₂ TEA laser. M.H. Back and R.A. Back, 1511.

Badger, R.A.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Badger, R.A

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Badri, M.

Thermochemical measurement of the ligand field splitting energies for hexaaquocopper(II) and hexaamminecopper(II) ions. M. Badri and J.W.S. Jamieson, 1926.

Bagli, J.F.

Formation of aminals from amines via Pummerer rearrangement. S. Rakhit, M. Georges, and J.F. Bagli, 1153.

Bagli, J.F.

Carbon-13 nuclear magnetic resonance spectral study of some isomeric derivatives of 2-methoxytropone. Troponoid-II. J.F. Bagli, T. Bogri, B. Palameta, and M. St-Jacques, 1949.

Bailey, A.S.

The reactions of arenesulphonyl azides with tetrahydropyrido[1,2-a]indoles and the X-ray crystallographic structure determination of a resultant novel zwitterion, 1,2,3,4-tetrahydro-10-methyl-4a-p-tolylsulphonylaminopyrido[1,2-a]indole. T.S. Cameron, R.E. Cordes, A. Terzis, A.S. Bailey, and P.W. Scott, 558.

Baird, N.C.

The dependence of ionization and excitation energies for the cis-azo group upon bond angle. N.C. Baird, 98.

Baiwir, M.

Etude par résonance magnétique nucléaire de composés organiques contenant des chalcogènes. II. L'éther de diphényle et ses analogues soufré, sélénié et telluré. G. Llabrès, M. Baiwir, L. Christiaens et J.-L. Piette, 2967.

Baker, P.M.

¹³C nuclear magnetic resonance spectral and conformational analysis of naturally occurring tetrahydrofuran lignans. S.F. Fonseca, L.E.S. Barata, E.A. Rúveda, and P.M. Baker, 441.

Balahura, R.J.

Substituent effects in electron transfer reactions. II. The chromium(II) reduction of 2-acetylbutane-1,3-dionatobis(ethylenediamine)cobalt(III) and 3-acetylpentane-2,4-dionatobis(ethylenediamine)cobalt(III). R.J. Balahura and N.A. Lewis, 1765.

Ball, R.G.

 $The \ crystal \ and \ molecular \ structure \ of \ \emph{cis-} dichloro (2.2'-o-phenylene bis benzo thiazole) \ copper (II). \ R.G. \ Ball \ and \ J. \ Trotter, 1368.$

Balsevich, J.

Total synthesis of indole and dihydroindole alkaloids. XVII. The total synthesis of catharine and vinamidine (catharinine). J.P. Kutney, J. Balsevich, and B.R. Worth, 1682.

Bancroft, G.M.

Stereochemistry of six coordinate organotin(IV) compounds with bidentate ligands. J.S. Tse, T.K. Sham, and G.M. Bancroft, 2223.

Bandini, A.L.

Metal derivatives of azoles. Part V. Platinum(II) and palladium(II) pyrazolates as a new type of neutral bidentate ligands. A.L. Bandini, G. Banditelli, G. Minghetti, and F. Bonati, 3237.

Banditelli, G.

Metal derivatives of azoles. Part V. Platinum(II) and palladium(II) pyrazolates as a new type of neutral bidentate ligands. A.L. Bandini, G. Banditelli, G. Minghetti, and F. Bonati, 3237.

Banerjee, S.

Mechanisms of bromination of uracil derivatives. 4. Formation of adducts in acidic aqueous solutions and their dehydration to 5-bromouracils. O.S. Tee and S. Banerjee, 626.

Bannard, R.A.B.

Transition state geometry in the scission and formation of cyclopentane and cyclohexane oxiranes. Use of the dilatometer in studying mixed reactions of different orders. J.W. Bovenkamp, E.J. Langstaff, R.Y. Moir, and R.A.B. Bannard, 2444.

Banoub, J.

Stannic tetrachloride catalysed glycosylation of 8-ethoxycarbonyloctanol by cellobiose, lactose, and maltose octaacetates; synthesis of α - and β -glycosidic linkages. J. Banoub and D.R. Bundle, 2085.

Banoub, J.

1.2-Orthoacetate intermediates in silver trifluoromethanesulphonate promoted Koenigs-Knorr synthesis of disaccharide glycosides. J. Banoub and D.R. Bundle, 2091.

Banoub, J.

Erratum: Stannic tetrachloride catalysed glycosylation of 8-ethoxycarbonyloctanol by cellobiose, lactose, and maltose octaacetates; synthesis of α - and β -glycosidic linkages. Erratum: 1,2-Orthoacetate intermediates in silver trifluoromethanesulphonate promoted Keonigs–Knorr synthesis of disaccharide glycosides. J. Banoub and D.R. Bundle, 2895.

Barata, L.E.S.

¹³C nuclear magnetic resonance spectral and conformational analysis of naturally occurring tetrahydrofuran lignans. S.F. Fonseca, L.E.S. Barata, E.A. Rúveda, and P.M. Baker, 441.

Barclay, L.R.C.

Sterically hindered aromatic compounds. IX. Electron spin resonance and product studies of the dediazoniation reaction. L.R.C. Barclay, A.G. Briggs, W.E. Briggs, J.M. Dust, and J.A. Gray, 2172.

Synthesis of long-chain coumarines and 2H-chromenes. Spectral and monolayer properties. H.P. Pommier, J. Baril, I. Gruda, and R.M. Leblanc, 1377.

Barker, R.

Isotopically-enriched carbohydrates: The preparation of [2H]-enriched aldoses by catalytic hydrogenolysis of cyanohydrins with ²H₂. A.S. Serianni and R. Barker, 3160.

Basumallick, I.N.

Thermodynamics of transfer of hydrogen halides from water to glycerol-water mixtures and the structuredness of the solvents. I.N. Basumallick and K.K. Kundu, 961.

Battey, P.K.

An approach to the synthesis of quadrigemine-A. P.K. Battey, D.L. Crookes, and G.F. Smith, 1694.

Réduction catalytique de cétones α , β -éthyléniques à température modérée par RhH(P ϕ_3)₄. D. Beaupere, P. Bauer et R. Uzan, 218.

Bazouin, J.R.

Primary mechanisms in the radiolysis of amines: pulse and γ -radiolysis of neutral and acidic ethylamine, n-propylamine and ethylenediamine. J.A. Delaire and J.R. Bazouin, 2013.

Beauchamp, A.L.

Crystal structure of dichlorobis (1-methylcytosine) cadmium (II). C. Gagnon, A.L. Beauchamp, and D. Tranqui, 1372.

Beauchamp, A.L.

Structure of a new crystalline modification of dithiocyanato(triphenylphosphine)mercury(II). R.C. Makhija, R.Rivest, and A.L. Beauchamp, 2555.

Beaulieu, P.

The addition of 2,4-dinitrobenzenesulphenyl chloride to 1,3-disubstituted allenes: a reexamination. D.G. Garratt and P. Beaulieu, 119

Beaunere, D.

Réduction catalytique de cétones α , β -éthyléniques à température modérée par RhH(P ϕ_3)₄. D. Beaupere, P. Bauer et R. Uzan, 218

Beck, J.F.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289. Beck, J.F.

Subtilisin Carlsberg, a chiral catalyst: an organic co-solvent. J.F. Beck and J.F. McMullan, 2516.

Beierbeck, H.

Anisotropic motion in 1-substituted adamantanes from 13Cmr relaxation time data. H. Beierbeck, R. Martino, and J.K. Saunders, 1224.

Beierbeck, H.

An isokinetic relationship in the oxidation of acetals by ozone. Evidence for rotation before the oxidation of acyclic acetals. R.J. Taillefer, S.E. Thomas, Y. Nadeau, and H. Beierbeck, 3041.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Belleau, B.

9-Oxobenzomorphans. I. General syntheses of dihydrobenz[e]indolines as key intermediates. G. Kavadias, S. Velkof, and B. Belleau, 1852.

Belleau, B.

9-Oxobenzomorphans. II. A versatile process for the synthesis of 9-oxo-6,7-benzomorphans. G. Kavadias, S. Velkof, and B.

Belleau, B.

9-Oxobenzomorphans. III. Synthesis of derivatives with various substituents at 2-, 2'-, and 5-positions. G. Kavadias, S. Velkof, and B. Belleau, 1866.

Belletête, M.

Electronic spectroscopy of aromatic Schiff's bases. III. Luminescence in some p-substituted benzylideneaniline molecules. M. Belletête and G. Durocher, 2539.

Beltran, A.

Etude des complexes du tungstène (VI) dans l'excès de acide malique. A. Cervilla, A. Beltran, and J. Beltran, 773.

Beltran, J.

Etude des complexes du tungstène (VI) dans l'excès de acide malique. A. Cervilla, A. Beltran, and J. Beltran, 773.

Bender, C.O.

Mechanistic and theoretical studies of the photochemistry of 5,6-dihydro-2-cyanobenzobarrelene. C.O. Bender and S.F. O'Shea, 2804

Benezra, C.

Allergenic α-methylene-γ-butyrolactones. A one-carbon degradation of isoalantolactone via Pummerer rearrangement of sulfoxides. J.-P. Corbet and C. Benezra, 213.

Benoit, R.L.

Vapour pressure and calorimetric data for the solution of sulfur dioxide in aprotic solvents. R.L. Benoit and E. Milanova, 1319.

Benson, G.C.

Ultrasonic velocities, compressibilities, and heat capacities of water + tetrahydrofuran mixtures at 298.15 K. O. Kiyohara, P.J. D'Arcy, and G.C. Benson, 1006.

Benson, G.C.

Reply to comment: Ultrasonic velocities for deuterium oxide – water mixtures at 298.15 K. O. Kiyohara, C.J. Halpin, and G.C. Benson, 2335.

Béraldin, M.-T.

Charge distributions and chemical effects. XIX. Analysis of 'bonded' and 'non-bonded' energy contributions in saturated hydrocarbons. S. Fliszár and M.-T. Béraldin, 1772.

Berchiesi, G.

Relation entre pression interne et température de fusion. L'entropie volumique de fusion. G. Berchiesi, M.A. Berchiesi, G. Vitali et V. Valenti, 2010.

Berchiesi, M.A.

Relation entre pression interne et température de fusion. L'entropie volumique de fusion. G. Berchiesi, M.A. Berchiesi, G. Vitali et V. Valenti, 2010.

Berney, D.J.F.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Bernstein, H.J.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Dertin, F.

Etude de l'ion HC₂O₄- en solution aqueuse par spectrométrie infrarouge et Raman. M. Jaber, F. Bertin et M.T. Forel, 876.

Bertin, F

Etude structurale des chlorure et sulfate de béryllium hydratés par spectrométrie infrarouge et Raman. F. Bertin et J. Derouault, 913.

Bevan, J.W.

Gas phase observation of the first overtone of the H—F stretching fundamental in hydrogen bonded complexes. J.W. Bevan, B. Martineau, and C. Sandorfy, 1341.

Beveridge, K.A.

Pentagonal pyramidal lead coordination in the crystal structure of dimeric diaquopyridine-2,6-dicarboxylatolead(II) pyridine-2,6-dicarboxylatolead(II) pyrid

Bhatki, K.S.

Self-adduct formation in the extraction of cobalt(II) chelates of certain 8-quinolinols. A.T. Rane and K.S. Bhatki, 580.

Bhatnagar, O.N.

Osmotic and activity coefficients of lithium chloride in water from 50 to 150°C. A.N. Campbell and O.N. Bhatnagar, 2542.

Birchall, T

The preparation and characterisation of 1,1,2,2-tetramethyl-1,2-diacyloxyditin(IV) compounds. T. Birchall and J.P. Johnson, 160.

Birnbaum, G.I.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Risagni, F.

Five-coordinate iron(II) porphyrins derived from $meso-\alpha$, β , γ , δ tetraphenylporphin: synthesis, characterization, and coordinating properties. M. Momenteau, B. Loock, E. Bisagni, and M. Rougee, 1804.

Biswas, R.K.

Kinetics of solvent extraction of metal ions with HEDHP. III. The kinetics and mechanism of solvent extraction of Cr(III) from acidic aqueous solutions with bis-(2-ethyl hexyl) phosphoric acid in benzene. M.F. Islam and R.K. Biswas, 3011.

Bladon, P.

Réarrangement du squelette de la catharanthine. IV. Nor-5 catharanthine et couplage avec la vindoline. R.Z. Andriamialisoa, N. Langlois, Y. Langlois, P. Potier et P. Bladon, 2572.

Bleha, T.

Lone pair interactions in dimethoxymethane and anomeric effect. I. Tvaroška and T. Bleha, 424.

Bogri, T.

Carbon-13 nuclear magnetic resonance spectral study of some isomeric derivatives of 2-methoxytropone. Troponoid-II. J.F. Bagli, T. Bogri, B. Palameta, and M. St-Jacques, 1949.

Bohme, D.K.

Gas-phase proton-transfer reactions of the hydronium ion at 298 K. G.I. Mackay, S.D. Tanner, A.C. Hopkinson, and D.K. Bohme, 1518.

Bohme, D.K.

Ī

A room-temperature study of the kinetics of protonation of formaldehyde. S.D. Tanner, G.I. Mackay, and D.K. Bohme, 2350.

Bohme, D.K.

Acid catalysis in the gas phase: dissociative proton transfer to formate and acetate esters. A.C. Hopkinson, G.I. Mackay, and D.K. Bohme, 2996.

Bohonek, J.

Carbonyl oxygen exchange of glycol monoesters. Rate and equilibrium constants for the formation of a tetrahedral intermediate. R.A. McClelland, M. Ahmad, J. Bohonek, and S. Gedge, 1531.

Bojes, J.

The formation and structure of a 1,5-disubstituted S_4N_4 ring, $(Ph_3P=N)_2S_4N_4$, from the reaction of triphenylphosphine with tetrasulphur tetranitride. J. Bojes, T. Chivers, G. MacLean, R.T. Oakley, and A.W. Cordes, 3171.

Bollinger, J.-C.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127. Bonati, F.

Donail, F.

New heteropolymetallic complexes of platinum(II) with palladium(II)-, gold(I)-, cadmium(II)-, or mercury(II)-chloride. F. Bonati and H.C. Clark, 483.

Bonati, F.

Erratum: Pyrazolato bridged binuclear complexes of palladium and platinum. F. Bonati and H.C. Clark, 796.

Bonati, F.

Metal derivatives of azoles. Part V. Platinum(II) and palladium(II) pyrazolates as a new type of neutral bidentate ligands. A.L. Bandini, G. Banditelli, G. Minghetti, and F. Bonati, 3237.

Borschberg, H.-J.

Thermal decomposition of ozonides. A complementary method to the Baeyer-Villiger oxidation of hindered ketones. R. Lapalme, H.-J. Borschberg, P. Soucy, and P. Deslongehamps, 3272.

Borschberg, H.-J.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Bose, K.

Ionization of ethylene glycol in isodielectric acetonitrile + ethylene glycol mixtures at 25°C. K. Bose and K.K. Kundu, 2470.

Bose, K.

Free energies of transfer of some single ions from ethylene glycol to its isodielectric mixtures with acetonitrile at 25°C. K. Bose and K.K. Kundu, 2476.

Bosshardt, H.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Botta, M.

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Bouquant, J.

Înteraction entre les réactifs lanthanidiques et les bases de Lewis: Application à l'analyse conformationelle d'alcools cyclohexaniques. J. Bouquant, A. Maujean et J. Chuche, 1080.

Bovenkamp, J.W.

Transition state geometry in the scission and formation of cyclopentane and cyclohexane oxiranes. Use of the dilatometer in studying mixed reactions of different orders. J.W. Bovenkamp, E.J. Langstaff, R.Y. Moir, and R.A.B. Bannard, 2444.

Boyd, R.K.

Molecular reorientation in solid sym-triazine. J.A. Ripmeester and R.K. Boyd, 128.

Boyd, R.K.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Boyd R.K.

Entropy changes and structural implications for crystalline phases of pyrazine. R.K. Boyd, J. Comper, and G. Ferguson, 3056.

Boyer, B.

Structure et réactivité. IV. Diastéréosélectivité de la réduction de cétones par le borohydrure de sodium. De l'influence de l'effet de champs de substituants polaires éloignés. J.-P. Aycard, R. Lafrance et B. Boyer, 2823.

Boyer, B

Relation entre structure et réactivité dans les réactions d'addition nucléophile sur les dérivés carbonylés: influence des interactions diaxiales-1,3 sur la réactivité de cyclanones et cyclanols stériquement encombrés. B. Boyer, G. Lamaty, C. Moreau et P. Geneste, 2848.

Braekman, J.-C.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Breakell, K.R.

Complexes of the methyl tris(3,5-dimethylpyrazol-1-yl) gallate ligand, $MeGa(N_2C_5H_7)_3$, and its hydroxy derivative, $MeGa(N_2C_5H_7)_2(OH)$. Crystal and molecular structure of $[MeGa(N_2C_5H_7)_2(OH)]Mo(CO)_2(\eta^3-C_4H_7)$. K.R. Breakell, S.J. Rettig, A. Storr, and J. Trotter, 139.

Brehat, F.

Vibrations de réseau de quelques dérivés dihalogénés du benzène. J. Serrier, F. Brehat, B. Wyncke et A. Hadni, 1814.

Bridson, J.N.

Reactions of N-3'-furylbenzamide with some dienophiles. J.N. Bridson, 314.

Briggs, A.G.

Sterically hindered aromatic compounds. IX. Electron spin resonance and product studies of the dediazoniation reaction. L.R.C. Barclay, A.G. Briggs, W.E. Briggs, J.M. Dust, and J.A. Gray, 2172.

Briggs, W.E.

Sterically hindered aromatic compounds. IX. Electron spin resonance and product studies of the dediazoniation reaction. L.R.C. Barclay, A.G. Briggs, W.E. Briggs, J.M. Dust, and J.A. Gray, 2172.

Brindle, I.D.

Ring forming reactions of some amine imides with a note on electrophilic bromination. I.D. Brindle and M.S. Gibson, 3155.

Brindle, I.D.

The crystal and molecular structure of a compound containing a novel ring system: (*E*)-6-(bromomethylene)-5,6-dihydro-4,4-dimethyl-2-phenyl-4*H*-1,3,4-oxadiazinium bromide. D.M. Thompson, I.D. Brindle, and M.F. Richardson, 3157.

Bron, J.

Vibrational theory of polyatomic molecules: energy levels of CH₄/CD₄ and CH₃Cl/CD₃Cl. J. Bron and R. Wallace, 2321.

Brooks, W.V.F.

The preparation and Raman spectra of SeBr₃AsF₆, SeBr₃SbF₆, TeBr₃AsF₆, and normal coordinate analyses of the tribromosulphur(IV), tribromoselenium(IV), and tribromotellurium(IV) cations. W.V.F. Brooks, J. Passmore, and E.K. Richardson, 3230.

Brossi, A

Selective O-demethylation of isoquinoline alkaloids: Preparation of hydrocotarnoline from hydrocotarnine and conversion of S-(+)-laureline into S-(+)-roemerine via S-(+)-mecambroline. J.-i. Minamikawa and A. Brossi, 1720.

Brousseau, R.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Brown, S.A.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Brown, R.S.

Application of photoelectron spectroscopy to substituent effects. Conformational analysis of some flexible allylic ethers and alcohols. R.S. Brown, R.W. Marcinko, and A. Tse, 1890.

Browne, E.N.C.

Violation of the 'para' rule in the boron trifluoride catalyzed cycloaddition of 4,4-dimethyl-2,5-cyclohexadien-1-one to isoprene. Total synthesis of ionene. H.-J. Liu and E.N.C. Browne, 377.

Browne, L.M.

¹³C nuclear magnetic resonance studies. 81. Conformational inversion barriers of some *cis*-decalins determined by ¹³C nuclear magnetic resonance. L.M. Browne, R.E. Klinck, and J.B. Stothers, 803.

Browne, L.M.

A new type of Lycopodium alkaloid. The C₃₀N₃ alkaloids from Lycopodium lucidulum. W.A. Ayer, L.M. Browne, Y. Nakahara, M. Tori, and L.T.J. Delbaere, 1105.

Brownstein, S.

Alkanes with multiple asymmetric centers: synthesis, identification, and ¹³C nuclear magnetic resonance spectra. P. Lachance, S. Brownstein, and A.M. Eastman, 367.

Bruna, P.J.

Ab initio SCF and CI calculations for ground and low-lying valence and Rydberg excited states of HOCl and HClO in linear and bent nuclear conformations. P.J. Bruna, G. Hirsch, S.D. Peyerimhoff, and R.J. Buenker, 1839.

Brunner, R

Isolation of ergovaline, ergoptine, and ergonine, new alkaloids of the peptide type, from ergot sclerotia. R. Brunner, P.L. Stütz, H. Tscherter, and P.A. Stadler, 1638.

Brunvoll, J.

On the planarity of the NSi₃ skeleton in the trisilylamine molecule. A normal coordinate analysis involving complex symmetry coordinates. H.F. Shurvell, A. Dunham, S.J. Cyvin, and J. Brunvoll, 1779.

Buchanan, G.W.

Structure and bonding in cyclic phosphoramidates as determined by carbon-13 magnetic resonance. G.W. Buchanan and F.G. Morin, 21.

Buchanan, G.W.

Stereochemical analysis of exo-methylenebenzocycloalkanes: evidence from carbon-13 nuclear magnetic resonance chemical shifts, ¹³C-¹³C nuclear spin couplings, and force field calculations. G.W. Buchanan, J. Selwyn, and B.A. Dawson, 3028.

Buemi, G.

Excited state properties of nitrobenzene derivatives. G. Buemi, S. Millefiori, F. Zuccarello, and A. Millefiori, 2167.

Buenker, R.J.

Ab initio SCF and CI calculations for ground and low-lying valence and Rydberg excited states of HOCl and HClO in linear and bent nuclear conformations. P.J. Bruna, G. Hirsch, S.D. Peyerimhoff, and R.J. Buenker, 1839.

Buenker, R.J.

Ab initio configuration interaction study of the $A^2A_1^{-2}B_1$ transition of PH₂ and PD₂. M. Peric, R.J. Buenker, and S.D. Peyerimhoff, 2491.

Buenker, R.J.

Ī

Theoretical study of the X^2B_1 , A^2A_1 , 2B_2 valence-shell and the first π_u^2 3s-type doublet and quartet Rydberg states of NH₂. S.D. Peyerimhoff and R.J. Buenker, 3182.

Bukowska, M.

Cyanoethylation of the salts of cyanoguanidine in aprotic solvents. P. Aleksandrowicz, M. Bukowska, M. Maciejewski, and J. Prejzner, 2593.

Bullock, E.

Some reactions of a 4-(1-chloroethyl)-1,4-dihydropyridine. B. Gregory, E. Bullock, and T.-S. Chen, 44.

Buncel, E.

σ complexes as biophysical and biochemical probes. Part III. Competitive demethylation and σ-complex formation in reaction of 4,6-dinitro-7-methoxybenzofuroxan with nucleophiles. E. Buncel, N. Chuaqui-Offermanns, R.Y. Moir, and A.R. Norris, 494.

Buncel, E.

Spectrophotometric study of ion pairing in diphenylmethyl alkali metal salts. E. Buncel, B.C. Menon, and J.P. Colpa, 999.

Buncel, E.

The normal and the retro-Boulton-Katritzky rearrangement of hydroxy- and nitro-substituted benzofuroxans. E. Buncel, N. Chuaqui-Offermanns, and A.R. Norris, 2512.

Bundle, D.R.

Artificial carbohydrate antigens: synthesis of rhamnose disaccharides common to Shigella flexneri O-antigen determinants. D.R. Bundle and S. Josephson, 662.

Bundle, D.R.

Stannic tetrachloride catalysed glycosylation of 8-ethoxycarbonyloctanol by cellobiose, lactose, and maltose octaacetates; synthesis of α - and β -glycosidic linkages. J. Banoub and D.R. Bundle, 2085.

Bundle, D.F.

1.2-Orthoacetate intermediates in silver trifluoromethanesulphonate promoted Koenigs-Knorr synthesis of disaccharide glycosides. J. Banoub and D.R. Bundle, 2091.

Bundle, D.R.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Bundle, D.R.

Erratum: Stannic tetrachloride catalysed glycosylation of 8-ethoxycarbonyloctanol by cellobiose, lactose, and maltose octaacetates; synthesis of α - and β -glycosidic linkages. Erratum: 1,2-Orthoacetate intermediates in silver trifluoromethanesulphonate promoted Keonigs-Knorr synthesis of disaccharide glycosides. J. Banoub and D.R. Bundle, 2895.

Dunuic, D.K.

Artificial carbohydrate antigens: the synthesis of the tetrasaccharide repeating unit of *Shigella flexneri* O antigen. S. Josephson and D.R. Bundle, 3073.

Buono-Core, G.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Bushnell, G.W.

The crystal and molecular structure of benzil bisthiosemicarbazonatocopper(II) and the antitumour mechanism of related compounds. G.W. Bushnell and A.Y.M. Tsang, 603.

Bushnell, G.W.

Pentagonal pyramidal lead coordination in the crystal structure of dimeric diaquopyridine-2,6-dicarboxylatolead(II) pyridine-2,6-dicarboxylatolead(II) pyrid

Bushnell, G.W

The crystal and molecular structure of syn-2,11-dithia[3,3]metacyclophane. W. Anker, G. W. Bushnell, and R.H. Mitchell, 3080. Butler, I.S.

Variable-temperature Raman spectroscopy as a probe of the supermolecular structure of ionomers. A. Neppel, I.S. Butler, and A.

Eisenberg, 2518.

abrese, J.C.
The crystal and molecular structure of the molybdenum tetracarbonyl complex of 1,4-diphenyl-2,2',3,3',5,5',6,6'-octamethylcyclo-1,4-diphospha-2,3,5,6-tetrasilahexane. J.C. Calabrese, R.T. Oakley, and R. West, 1909.

Calhoun, H.P.

Erratum: Crystal and molecular structures of 2,2,4,4,6,8, 8-heptamethyl-6-methylamino-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin and 2,2,4,4,6,8, 8-heptamethyl-6-methylamino-7-benzoyl-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin. H.P. Calhoun, R.T. Oakley, N.L. Paddock, S.J. Rettig, and J. Trotter, 1273.

Cameron, T.S

The reactions of arenesulphonyl azides with tetrahydropyrido[1,2-a]indoles and the X-ray crystallographic structure determination of a resultant novel zwitterion, 1,2,3,4-tetrahydro-10-methyl-4a-p-tolylsulphonylaminopyrido[1,2-a]indole. T.S. Cameron, R.E. Cordes, A. Terzis, A.S. Bailey, and P.W. Scott, 558.

Campbell, A.B.

Dissolution of iron during the initial corrosion of carbon steel in aqueous H₂S solutions. P.H. Tewari and A.B. Campbell, 188.

Campbell, A.N.

Evidence for the existence of complex ions in mixed solutions of indium trichloride and ammonium chloride. A.N. Campbell, 702.

Campbell, A.N.

The density and vapour pressure of dimethylsulfoxide at various temperatures and the (hypothetical) critical density. A.N. Campbell, 705.

Campbell, A.N.

Osmotic and activity coefficients of lithium chloride in water from 50 to 150°C. A.N. Campbell and O.N. Bhatnagar, 2542.

Capillon, J.

Effets des substituants dans les spectres de rmn de benzhydrols substitués en présence de Eu(dcm)₃. J. Capillon et L. Lacombe, 1446.

Capitan, F.

Contribution to the solution chemistry and polarographic behaviour of anthrapurpurin complexan. F. Capitan, A. Guiraum, J.L. Vilchez, and J.F. Arenas, 3243.

Capon, B.

The reaction of ethyl 3,4,6-tri-O-acetyl-2-amino-2-deoxy-β-D-glucoside in acetone. B. Capon, C. Labbé, and D.S. Rycroft, 2978.

Capps, T.M.

The biosynthesis of protoberberine and related isoquinoline alkaloids. H.L. Holland, P.W. Jeffs, T.M. Capps, and D.B. MacLean, 1588.

Carlsson, D.J.

The thermal decomposition of 1-(2'-cyano-2'-propoxy)-4-oxo-2,2,6,6-tetramethylpiperidine. D.W. Grattan, D.J. Carlsson, J.A. Howard, and D.M. Wiles, 2834.

Carrié, R

Les oxazolines-4 précurseurs de sels d'iminium fonctionnels. Ouverture en milieu anhydre de ces hétérocycles par des acides protoniques: obtention de sels d'iminium fonctionnels, étude de leur structure. M. Vaultier, G. Mullick et R. Carrié, 2876.

Casey, M.

Nuclear analogs of β -lactam antibiotics. X. Synthesis of 2-substituted desthiocephalosporins. T.W. Doyle, T.T. Conway, M. Casey, and G. Lim, 222.

Cater, S.R.

Hydrogen bond assisted reactions: C- and O-alkylations, sulphenylations, and Michael additions aided by polymer immobilized fluoride ion. J.M. Miller, S.R. Cater, K.-H. So, and J.H. Clark, 2629.

Cava, M.P.

Splendidine, a new oxoaporphine alkaloid from Abuta rufescens Aublet. J.W. Skiles, J.M. Saa, and M.P. Cava, 1642.

Cervilla, A.

Etude des complexes du tungstène (VI) dans l'excès de acide malique. A. Cervilla, A. Beltran, and J. Beltran, 773.

Chagas, H.C.

Isopotential points in the electrosorption of selenite, selenate, selenide, and tellurite at the platinum rotating disc electrode. H.C. Chagas, 2560.

Champagne, P.J.

Electrochemical synthesis of some 1,2-dimethyl 1,2-disubstituted ethylenes. R.N. Renaud and P.J. Champagne, 990.

Champagne, P.J.

Electrochemical oxidation of trifluoroacetic acid anion. IV. Synthesis and stereochemistry of products of trifluoromethyl radical addition to some mono- and disubstituted olefins. R.N.Renaud, P.J. Champagne, and M. Savard, 2617.

Chan, W.H.

A total synthesis of (-)-khusimone. H.-J. Liu and W. H. Chan, 708.

Chandler, W.D.

Conformations of bridged diphenyls. XIV. Crystal structure of 2-(4'-carbomethoxy-2'-aminophenoxy)-1,3,5-trimethylbenzene and endocyclic angles in bridged diphenyls. R. Gopal, W.D. Chandler, and B.E. Robertson, 2767.

Chandra, P.

Theoretical study of isotropic hyperfine coupling constants in small radicals by MINDO/3 method. P.K.K. Pandey and P. Chandra, 3126.

Chaudhury, N.

Insertion of an acetylene into the platinum-iodide bond. N. Chaudhury and R.J. Puddephatt, 2549.

Chauhan, M.S.

The preparation and properties of some thioacylmethylenethiazolines and isothiazolines. D.M. McKinnon, M.E. Hassan, and M.S. Chauhan, 207.

Chen, K.S.

Electron spin resonance observations of photochemically generated contact ammonium ion-pairs of fluoro-substituted ketones. K.S. Chen, T. Foster, and J.K.S. Wan, 600.

Chen, T.-S.

Some reactions of a 4-(1-chloroethyl)-1,4-dihydropyridine. B. Gregory, E. Bullock, and T.-S. Chen, 44.

Chenier, J.H.B.

Absolute rate constants for hydrocarbon autoxidation. 26. Rate constants for reaction of the *tert*-butylperoxy radical with 1-bromo-2-methylbutane and 1-bromo-3-methylbutane and some related substituted butanes. J.A. Howard and J.H.B. Chenier, 2484.

Cheriyan, U.O.

Hydrolysis of cyclic unsymmetrical *unti* imidate salts. New evidence for stereoelectronic control. P. Deslongchamps, U.O. Cheriyan, and R.J. Taillefer, 3262.

Childs, R.F.

Photoisomerization of protonated cyclohex-2-enones. R.F. Childs, K.E. Hine, and F.A. Hung, 1442.

Chinnasamy, P.

Berberidic acid. P. Chinnasamy and M. Shamma, 1647.

Chivers, T.

Reactions of the tetrasulfur pentanitride(-1) ion with halogens: synthesis, spectroscopic characterization, and crystal structure of pentasulfur hexanitride. T. Chivers and J. Proctor, 1286.

Chivers, T.

The formation and structure of a 1,5-disubstituted S_4N_4 ring, $(Ph_3P=N)_2S_4N_4$, from the reaction of triphenylphosphine with tetrasulphur tetranitride. J. Bojes, T. Chivers, G. MacLean, R.T. Oakley, and A.W. Cordes, 3171.

Chong, K.S.

Molybdenum, tungsten, and manganese carbonyl compounds incorporating novel tridentate chelating dimethyl(1-pyrazolyl)(ethanolamino)gallate ligands. K.S. Chong and A. Storr, 167.

Chong, K.S.

Synthesis and crystal and molecular structure of ethanolaminogallium dimethyl, H₂NCH₂CH₂O • GaMe₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 586.

Chong, K.S.

Crystal and molecular structure of $(\eta^3$ -2-methylallyl)[dimethyl(ethanolamino) (3,5-dimethyl-1-pyrazolyl)gallato(N-(2),N(3),O)]dicarbonylmolybdenum, [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NH₂)]Mo(CO)₂(η^3 -C₄H₇). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 1335.

Chong, K.S.

Neutral pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3090.

Chong, K.S.

Anionic pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3099.

Chong, K.S.

Reactions of Ni(NO)I with pyrazolyl gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)-(OCH₂CH₂NMe₂)]Ni(NO). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3107.

Chong, K.S.

Five-coordinate iron and manganese dinitrosyl complexes incorporating tridentate chelating dimethyl(*N*,*N*-dimethylethanolamino)(pyrazolyl)gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NMe₂)]Fe(NO)₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3113.

Chong, K.S.

Synthesis and structure of 3,5-dimethylpyrazolyl iron and cobalt dinitrosyl dimers. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3119.

Chopra, P.C.

Excess volumes of β -picoline and γ -picoline mixtures with some *n*-alcohols at 308.15 K. P.P. Singh, B.R. Sharma, and P.C. Chopra, 2386.

Chow, Y.L.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Chow, Y.L.

An investigation of the photodecomposition of *N*-bromosuccinimide; the generation and reactivity of succinimidyl radical. F.-L. Lu, Y.M.A. Naguib, M. Kitadani, and Y.L. Chow, 1967.

Chow, Y.L.

The transannular electrophilic reaction of alkenyl nitroso compounds and the stereochemistry of nitrosyl chloride addition. Y.L. Chow, K.S. Pillay, and H. Richard, 2923.

Chow, Y.L.

Generation of aminyl and aminium radicals by photolysis of *N*-nitrodialkylamines in solution. Y.L. Chow, H. Richard, R.W. Snyder, and R.W. Lockhart, 2936.

Christiaens, L.

Etude par résonance magnétique nucléaire de composés organiques contenant des chalcogènes. II. L'éther de diphényle et ses analogues soufré, sélénié et telluré. G. Llabrès, M. Baiwir, L. Christiaens et J.-L. Piette, 2967.

Chua, M.G.S.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part I. Composition and molecular weight distribution of extracted autohydrolysis lignin. M.G.S. Chua and M. Wayman, 1141.

hua, M.G.S.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 2. Alkaline nitrobenzene oxidation studies of extracted autohydrolysis lignin. M. Wayman and M.G.S. Chua. 2599.

Chua, M.G.S.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 3. Infrared and ultraviolet studies of extracted autohydrolysis lignin. M.G.S. Chua and M. Wayman, 2603.

Chua, M.G.S.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 4. Residual autohydrolysis lignin. M. Wayman and M.G.S. Chua, 2612.

Chuaqui-Offermanns, N.

 σ complexes as biophysical and biochemical probes. Part III. Competitive demethylation and σ -complex formation in reaction of 4,6-dinitro-7-methoxybenzofuroxan with nucleophiles. E. Buncel, N. Chuaqui-Offermanns, R.Y. Moir, and A.R. Norris, 494.

Chuaqui-Offermanns, N.

The normal and the retro-Boulton-Katritzky rearrangement of hydroxy- and nitro-substituted benzofuroxans. E. Buncel, N. Chuaqui-Offermanns, and A.R. Norris, 2512.

Chuche, J.

Interaction entre les réactifs lanthanidiques et les bases de Lewis: Application à l'analyse conformationelle d'alcools cyclohexaniques. J. Bouquant, A. Maujean et J. Chuche, 1080.

Chung, T.Y.C.C.

Time-resolved CIDEP in the photoreduction of quinones. A study of the spin lattice relaxation time of semiquinone radicals in solution. J.W.M. deBoer, T.Y.C.C. Chung, and J.K.S. Wan, 2971.

Clair, R.L.

An ion cyclotron resonance study of competitive solvation of gas phase anions. R.L. Clair and T.B. McMahon, 473.

Clark, H.C.

New heteropolymetallic complexes of platinum(II) with palladium(II)-, gold(I)-, cadmium(II)-, or mercury(II)-chloride. F. Bonati and H.C. Clark, 483.

Clark, H.C.

Erratum: Pyrazolato bridged binuclear complexes of palladium and platinum. F. Bonati and H.C. Clark, 796.

Clark, H.C.

Phosphorus-31 nuclear magnetic resonance spectra of methylplatinum(II) and methylpálladium(II) cations containing 4-substituted pyridine ligands. H.C. Clark and C.R. Milne, 958.

Clark, J.H.

Strong hydrogen bonding in oxime solvates of tetra-n-butylammonium fluoride. J. H. Clark, 1481.

Clark, J.H.

Fluoride ion promoted synthesis of alkyl phenylethers. J.M. Miller, K.H. So, and J.H. Clark, 1887.

Clark, J.H.

Hydrogen bond assisted reactions: C- and O-alkylations, sulphenylations, and Michael additions aided by polymer immobilized fluoride ion. J.M. Miller, S.R. Cater, K.-H. So, and J.H. Clark, 2629.

Cobbledick, R.E.

The crystal and molecular structures of bromotricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)rhenium(1) and tricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)tungsten(0). R.E. Cobbledick, L.R.J. Dowdell, F.W.B. Einstein, J.K. Hoyano, and L.K. Peterson, 2285.

Cohen, J.F.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Colbourne, D.

The photoelectron spectra of the methylbromamines and unsubstituted bromamines. D. Colbourne, D.C. Frost, C.A. McDowell, and N.P.C. Westwood, 1279.

Coley, W.R. III

Reactions of phenyl(trichloromethyl)carbinol with substituted thioureas, thiobenzhydrazide, and amino thiols to form heterocyclic compounds. W. Reeve and W.R. Coley III, 444.

Collignon, N.

Synthèse et amination réductrice de phosphonopyruvates: préparation d'acides amino-2 carboxy-2 alkylphosphoniques (β-phosphonoalanine). J.-M. Varlet, N. Collignon, et P. Savignac, 3216.

Collin. G.J.

Photolyse du méthyl-2-butène-1, du méthyl-3-butène-1 et du cis-pentène-2 à 174, 163 et 147 nm. G.J. Collin, H. Deslauriers et S. Auclair, 863.

Collin, G.J.

Photolyse du propène et du méthyl-2-butène-2 vers 174 et à 163 nm. G.J. Collin, H. Deslauriers et J. Deschênes, 870.

Colpa, J.P.

Spectrophotometric study of ion pairing in diphenylmethyl alkali metal salts. E. Buncel, B.C. Menon, and J.P. Colpa, 999.

Comer, F.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Comper, J

Entropy changes and structural implications for crystalline phases of pyrazine. R.K. Boyd, J. Comper, and G. Ferguson, 3056.

Con, A.

The kinetics of the reactions of boric acid with 5-substituted salicylate ions. A. Queen, L. Davies, and A. Con, 920.

Conway, T.T.

Nuclear analogs of β -lactam antibiotics. X. Synthesis of 2-substituted desthiocephalosporins. T.W. Doyle, T.T. Conway, M. Casey, and G. Lim, 222.

Conway, T.T.

Nuclear analogs of β -lactam antibiotics. XI. Synthesis of 3-methyl-7- β -(phenoxyacetamido)- Δ ³-desthiocephem-4-carboxylic acid. T.W. Doyle, T.T. Conway, G. Lim, and B.-Y. Luh, 227.

Corbet, J.-P.

Allergenic α-methylene-γ-butyrolactones. A one-carbon degradation of isoalantolactone via Pummerer rearrangement of sulfoxides. J.-P. Corbet and C. Benezra, 213.

Cordes, A.W.

The crystal and molecular structure of 1,4-diphenyl-2,2',3,3',5,5',6,6'-octamethylcyclo-1,4-diphospha-2,3,5,6-tetrasilahexane, a phosphorus-silicon heterocycle. A.W. Cordes, P.F. Schubert, and R.T. Oakley, 174.

Cordes, A.W.

The formation and structure of a 1,5-disubstituted S_4N_4 ring, $(Ph_3P=N)_2S_4N_4$, from the reaction of triphenylphosphine with tetrasulphur tetranitride. J. Bojes, T. Chivers, G. MacLean, R.T. Oakley, and A.W. Cordes, 3171.

Cordes, R.E.

The reactions of arenesulphonyl azides with tetrahydropyrido[1,2-a]indoles and the X-ray crystallographic structure determination of a resultant novel zwitterion, 1,2,3,4-tetrahydro-10-methyl-4a-p-tolylsulphonylaminopyrido[1,2-a]indole. T.S. Cameron, R.E. Cordes, A. Terzis, A.S. Bailey, and P.W. Scott, 558.

Corleto, L.A.

Quaternization and sodium borohydride reduction of *N*-(4-pyridylcarbonylamino)-1,2,3,6-tetrahydropyridine. Synthesis of *N*-amino-1,2,3,6-tetrahydropyridines. K. Redda, L.A. Corleto, and E.E. Knaus, 2981.

osta, M.D.

Chemical reactions in glow discharges. IV. Production and removal of oxygen atoms in the dc glow discharge. M.D. Costa, P.A. Zuliani, and J.M. Deckers, 568.

Costa, M.D.

Chemical reaction in electric discharge. V. Reaction kinetics in a low frequency modulated discharge., J.N. Smith, M.D. Costa, and J.M. Deckers, 785.

Cot, L

Etude structurale du monofluorophosphate de potassium K₂PO₃F. J.-L. Payen, J. Durand, L. Cot et J.-L. Galigne, 886.

Cot, L.

Sur quelques sulfites de cations monovalents; étude structurale de LiCsSO₃ • 2H₂O. C. Archer, J. Durand, L. Cot et J.-L. Galigne, 899

Coutts, R.T.

Preparation of two metabolites of isometheptene. W.G. Taylor and R.T. Coutts, 2103.

Cox. R.A.

Kinetic equations for reactions in concentrated aqueous acids based on the concept of "excess acidity". R.A. Cox and K. Yates, 2944.

Cox, R.A.

The excess acidity method. The basicities, and rates and mechanisms of enolization, of some acetophenones and acetone, in moderately concentrated sulfuric acid. R.A. Cox, C.R. Smith, and K. Yates, 2952.

Cox. R.A.

The hydrolyses of some sterically crowded benzoate esters in sulfuric acid. The excess acidity method at different temperatures. R.A. Cox, M.F. Goldman, and K. Yates, 2960.

Crookes, D.L.

An approach to the synthesis of quadrigemine-A. P.K. Battey, D.L. Crookes, and G.F. Smith, 1694.

Crossley, J.

Molecular and group relaxation studies in parasubstituted benzenes in various media. J. Crossley, J.P. Shukla, S.P. Tay, M.S. Walker, and S. Walker, 2843.

Cullen, W.R.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Cullimore, P.A.

The enol content of simple carbonyl compounds: a thermochemical approach. J.P. Guthrie and P.A. Cullimore, 240.

Cushley, R.J.

Structures and properties of mixtures of branched chain compounds and legithin: phytol, α -tocopherol (vitamin E), and phytanic acid. R.J. Cushley, B.J. Forrest, A. Gillis, and J. Tribe, 458.

Cushley, R.J.

Carbon-13 nuclear magnetic resonance studies of the cholesteryl ester - phosphatidylcholine system. R.J. Cushley and B.J. Forrest, 2364.

Cuvigny, T.

Milieux hyperbasiques: Recherches sur les amides et lactames ω-halogénés. Essais de cyclisation. T. Cuvigny, P. Hullot, P. Mulot, M. Larcheveque et H. Normant, 1201.

Cvetanović, R.J.

Determination of rates of hydrogen atom reactions with alkenes at 298 K by a double modulation technique. K. Oka and R.J. Cvetanović, 777.

Cvetanović, R.J.

Temperature dependence of rate constants for reaction of oxygen atoms, O(³P), with allene and 1,3-butadiene. W.S. Nip, D.L. Singleton, and R.J. Cvetanović, 949.

Cyr, N.

The conformations of furanosides. A 13C nuclear magnetic resonance study. N. Cyr and A.S. Perlin, 2504.

Cvr. T.D.

Pyrones. IV. Phacidin, a fungal growth inhibitor from *Potebniamyces balsamicola* Smerlis var. *boycei* Funk. G.A. Poulton, T.D. Cyr, and E.E. McMullan, 1451.

Cyvin, S.J.

On the planarity of the NSi₃ skeleton in the trisilylamine molecule. A normal coordinate analysis involving complex symmetry coordinates. H.F. Shurvell, A. Dunham, S.J. Cyvin, and J. Brunvoll, 1779.

Dalton, J.G.

¹H nuclear magnetic resonance study of 2,2'-anhydro-O²-β-D-arabinosyluracil. Four- and five-bond coupling constants in the sugar moiety. F.E. Hruska, J.G. Dalton, and M. Remin, 2191.

Dance, N.S.

Erratum: A Mössbauer study of organotellurium compounds. Part III. Tellurium heterocycles and related compounds. N.S. Dance and C.H.W. Jones, 1005.

Danchura, W.

The conformational preference and barrier to internal rotation of an equatorial 3,5-dichlorophenyl group by the *J* method. Derivatives of cyclohexane, 1,3-dithiane, 1,3-dioxane, and 1,3-dioxolane. T. Schaefer, W. Niemczura, and W. Danchura, 355.

Danchura, W.

Derivatives of diphenylmethane. Preferred conformations and barriers to internal rotation by the J method. T. Schaefer, W. Niemczura, W. Danchura, and T.A. Wildman, 1881.

Danchura, W.

Conformational preferences of the *syn*-pyridinecarboxaldehyde oximes. W. Danchura, R.E. Wasylishen, J. Delikatny, and M.R. Graham, 2135.

Daniewski, A.R.

Total synthesis of 14 β-hydroxy-4,9(11)-androstadiene-3,17-dione. A.R. Daniewski, P.S. White, and Z. Valenta, 1397.

Dao, L.H.

The formation and interconversion of oxazines and dioxazines from the reaction of nitrosocarbonyl compounds with cyclopentadienes. L.H. Dao, J.M. Dust, D. Mackay, and K.N. Watson, 1712.

Dao, L.H.

Reactions of 4-phenyl-3H-1,2,4-triazole-3,5(4H)-dione with alcohols and amines. L.H. Dao and D. Mackay, 2727.

Darby, N.

Chemical and microbiological remote functionalisation of (+)- and (-)-bornyl acetate. M.S. Allen, N. Darby, P. Salisbury, E.R. Sigurdson, and T. Money, 733.

Darby, N.

Synthesis and absolute configuration of nojigiku alcohol. N. Darby, N. Lamb, and T. Money, 742.

D'Arcy, P.J.

Ultrasonic velocities, compressibilities, and heat capacities of water + tetrahydrofuran mixtures at 298.15 K. O. Kiyohara, P.J. D'Arcy, and G.C. Benson, 1006.

Das, J.

Total synthesis of steroids. Part 1. Ring A aromatic compounds. Regiocontrol in diene additions with 6-methoxy-1-vinyl-3,4-dihydronaphthalene. J. Das, R. Kubela, G.A. MacAlpine, Z. Stojanac, and Z. Valenta, 3308.

Das. J.

Total synthesis of androstanes. M. Kakushima, J. Das, G.R. Reid, P.S. White, and Z. Valenta, 3356.

Dave, V.

¹³C nuclear magnetic resonance studies. 85. ¹³C spectra of several ring-contracted and -expanded steroids. V. Dave and J.B. Stothers, 1550.

Dave, V.

Ring expansion of cyclic ketones: The reliable determination of migration ratios for 3-keto steroids by ¹³C nuclear magnetic resonance and the general implications thereof. V. Dave, J.B. Stothers, and E.W. Warnhoff, 1557.

Davidson, D.W.

The conformation and reorientation of enclathrated 1,2-dichloroethane. S.K. Garg, D.W. Davidson, S.R. Gough, and J.A. Ripmeester, 635.

Davidson, W.R.

Gas phase ion equilibria: $RCO^+ + OH_2 = RC(OH)_2^+$; heats of formation of acylium ions RCO^+ and protonated acids $RC(OH)_2^+$; gas phase catalysis of proton shift $RC(OH)_2^+ \to RCO(OH_2^-)^+$. W.R. Davidson, S. Meza-Höjer, and P. Kebarle, 3205.

Davice I

The kinetics of the reactions of boric acid with 5-substituted salicylate ions. A. Queen, L. Davies, and A. Con, 920.

Dawe, R.D.

Stereoselective routes to some unsaturated α - and β -C-glycopyranosides. B. Fraser-Reid, R.D. Dawe, and D.B. Tulshian, 1746.

Dawson, B.A.

Stereochemical analysis of *exo*-methylenebenzocycloalkanes: evidence from carbon-13 nuclear magnetic resonance chemical shifts, ¹³C-1³C nuclear spin couplings, and force field calculations. G.W. Buchanan, J. Selwyn, and B.A. Dawson, 3028.

Dazord, J.

Etude chimique et spectroscopique du système B(SCH₃)₃-B(NCS)₃. H.-R. Atchekzai, H. Mongeot, J. Dazord et J.-P. Tuchagues, 1122.

Dean, P.A.W.

Nuclear magnetic resonance studies of the solvation of phosphorus(V) selenides, 1,2-bis(diphenylphosphino)ethane, and tris(dimethylamino)phosphine telluride by sulfur dioxide. P.A.W. Dean, 754.

Dean, P.A.W.

Erratum: Nuclear magnetic resonance studies of the solvation of phosphorus(V) selenides, 1,2-bis(diphenylphosphino)ethane, and tris(dimethylamino)phosphine telluride by sulfur dioxide. P.A.W. Dean, 2847.

deBoer, J.W.M.

Time-resolved CIDEP in the photoreduction of quinones. A study of the spin lattice relaxation time of semiquinone radicals in solution. J.W.M. deBoer, T.Y.C.C. Chung, and J.K.S. Wan, 2971.

Decesare, J.M.

 α , β -Epoxy sulfoxides and sulfones. Synthesis and some reactions. T. Durst, K.-C. Tin, F. de Reinach-Hirtzbach, J.M. Decesare, and M.D. Ryan, 258.

Deckers, J.M.

Chemical reactions in glow discharges. IV. Production and removal of oxygen atoms in the dc glow discharge. M.D. Costa, P.A. Zuliani, and J.M. Deckers, 568.

Deckers, J.M.

Chemical reaction in electric discharge. V. Reaction kinetics in a low frequency modulated discharge. J.N. Smith, M.D. Costa, and J.M. Deckers, 785.

Declercq, J.-P.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Delaire, J.A.

١

Primary mechanisms in the radiolysis of amines: pulse and γ -radiolysis of neutral and acidic ethylamine, n-propylamine and ethylenediamine. J.A. Delaire and J.R. Bazouin, 2013.

Delbaere, L.T.J.

A new type of Lycopodium alkaloid. The C₃₀N₃ alkaloids from Lycopodium lucidulum. W.A. Ayer, L.M. Browne, Y. Nakahara, M. Tori, and L.T.J. Delbaere, 1105.

Delikatny, J.

Conformational preferences of the syn-pyridinecarboxaldehyde oximes. W. Danchura, R.E. Wasylishen, J. Delikatny, and M.R. Graham, 2135.

Delmas, G.

Excess heats of tri-n-alkylamines and tetraalkyl tin compounds in linear and branched alkanes: correlations of molecular orientations and steric hindrance effect. R. Philippe, G. Delmas, and P.N. Hong, 517.

Demchuk, K.J.

Hydrogenation during ligand exchange reactions between ferrocene and pyrene. C.C. Lee, K.J. Demchuk, and R.G. Sutherland, 933.

Demchuk, K.J.

Nucleophilic reactions of zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations. C.C. Lee, B.R. Steele, K.J. Demchuk, and R.G. Sutherland, 946.

Demerson, C.A.

The synthesis of 5,6-dihydro-3,3-dimethyl-4,1-benzoxazonine-2,7(1*H*,3*H*)dione and its conversion into 1,3-dihydro-3,3-dimethylfuro[3,4-*b*] quinolines. C.A. Demerson and L.G. Humber, 3296.

de Reinach-Hirtzbach, F.

 α , β -Epoxy sulfoxides and sulfones. Synthesis and some reactions. T. Durst, K.-C. Tin, F. de Reinach-Hirtzbach, J.M. Decesare, and M.D. Ryan, 258.

Derouault, J.

Etude structurale des chlorure et sulfate de béryllium hydratés par spectrométrie infrarouge et Raman. F. Bertin et J. Derouault, 913.

Deschênes, J.

Photolyse du propène et du méthyl-2-butène-2 vers 174 et à 163 nm. G.J. Collin, H. Deslauriers et J. Deschênes, 870.

de Silva, S.O.

A convergent route to phthalideisoquinoline alkaloids via directed metalation of tertiary benzamides. S.O. de Silva, I. Ahmad, and V. Snieckus, 1598.

Desjardins, C.D.

Preparation of copper(1) carbonyl hexafluoroarsenate, CuCO+AsF₆⁻, and copper(1) trifluorophosphine hexafluoroarsenate, CuPF₃+AsF₆⁻. C.D. Desjardins, D.B. Edwards, and J. Passmore, 2714.

Deslauriers, H.

Photolyse du méthyl-2-butène-1, du méthyl-3-butène-1 et du *cis*-pentène-2 à 174, 163 et 147 nm. G.J. Collin, H. Deslauriers et S. Auclair, 863.

Deslauriers, H.

Photolyse du propène et du méthyl-2-butène-2 vers 174 et à 163 nm. G.J. Collin, H. Deslauriers et J. Deschênes, 870.

Deslongchamps, P.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Deslongchamps, P.

Hydrolysis of cyclic unsymmetrical *anti* imidate salts. New evidence for stereoelectronic control. P. Deslongchamps, U.O. Cheriyan, and R.J. Taillefer, 3262.

Deslongchamps, P.

Thermal decomposition of ozonides. A complementary method to the Baeyer–Villiger oxidation of hindered ketones. R. Lapalme, H.-J. Borschberg, P. Soucy, and P. Deslongchamps, 3272.

Dhanoa, D.

Acid-catalysed cleavage of 4-halonortricyclenes in deuterated medium; evidence that the norbornyl cation is an unsymmetrical species. N.H. Werstiuk, D. Dhanoa and G. Timmins, 2885.

Diakow, P.R.P.

Microbial hydroxylation of steroids. 5. Metabolism of androst-5-ene-3,17-dione and related compounds by *Rhizopus arrhizus* ATCC 11145. H.L. Holland and P.R.P. Diakow, 436.

Diakow, P.R.P.

Microbial hydroxylation of steroids. 6. Hydroxylation of C-6-substituted androst-4-ene-3,17-diones by *Rhizopus arrhizus* ATCC 11145. H.L. Holland and P.R.P. Diakow, 1585.

Dias. S.

Structural studies of steric effects in phosphine complexes. Part VII. Synthesis, crystal and molecular structure of the chloroperchloratotri(o-tolyl)phosphinemercury(II) dimer. E.C. Alyea, S. Dias, G. Ferguson, and M. Khan, 2217.

Dias, S.A

Spectroscopic studies of mercury (II) acetate complexes of some tertiary phosphines. E.C. Alyea and S.A. Dias, 83.

Dickinson, R.A.

Total synthesis of (\pm)-5 β ,8 α -androst-9(11)-ene-3,17-dione. M. Kakushima, L. Allain, R.A. Dickinson, P.S. White, and Z. Valenta, 3354.

Dignam, M.J.

Differential equation for transport along parallel linear successions of identical symmetrical potential barriers. M.J. Dignam, 1329.

Total synthesis of spirobenzylisoquinoline alkaloids. Part V. Generalized approach to the complete set of alkaloids. D. Dime and S. McLean. 1569.

Dimmock, J.R.

Studies on the mass spectrometry of some acyclic nuclear substituted styryl ketoximes and ketones with special reference to the ortho effect. P.J. Smith, C.B. Nyathi, J.R. Dimmock, and L.M. Smith, 2908.

Dixon, R.S.

Magnetic field effect on the fluorescence from y-irradiated solutions of perfluorocarbons. R.S. Dixon and V.J. Lopata, 3023.

Dodds, D.R.

Enzymes in organic synthesis 17. Oxidoreductions of alcohols, aldehydes, and ketones using chemically modified horse liver alcohol dehydrogenase. J.B. Jones and D.R. Dodds, 2533.

Doebel, K.J.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Dogra, S.D.

The interaction between the excited triplet state of ketones and olefins: the role of triplet exciplexes. R.O. Loutfy, S.D. Dogra, and R.W. Yip, 342.

Doiron, C.E.

An ab initio and ion cyclotron resonance study of the protonation of borazine. C.E. Doiron, F. Grein, T.B. McMahon, and K. Vasudevan, 1751.

Douhéret, G.

Thermodynamic and physical behaviour of some water + polyethyleneglycol mixtures. II. Dielectric properties. G. Douhéret and M. Morénas, 608.

Doutheau, A.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Dove, J.E.

A shock-tube study of ammonia pyrolysis. J.E. Dove and W.S. Nip, 689.

Dowdell, L.R.J.

The crystal and molecular structures of bromotricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)rhenium(1) and tricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)tungsten(0). R.E. Cobbledick, L.R.J. Dowdell, F.W.B. Einstein, J.K. Hoyano, and L.K. Peterson, 2285.

Doyle, T.W.

Nuclear analogs of β -lactam antibiotics. X. Synthesis of 2-substituted desthiocephalosporins. T.W. Doyle, T.T. Conway, M. Casey, and G. Lim, 222.

Doyle, T.W.

Nuclear analogs of β -lactam antibiotics. XI. Synthesis of 3-methyl-7- β -(phenoxyacetamido)- Δ 3-desthiocephem-4-carboxylic acid. T.W. Doyle, T.T. Conway, G. Lim, and B.-Y. Luh, 227.

Doyle, T.W.

Nuclear analogs of β-lactam antibiotics. XII. 2-Oxodesthiocephalosporins. A. Martel, T.W. Doyle, and B.-Y. Luh, 614.

Drake, J.E.

Mass spectra of bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide. J.E. Drake, B.M. Glavinčevski. H.E. Henderson, and C. Wong, 1162.

Drake, J.E.

The ¹³C chemical shifts of various methylgermanium derivatives. J.E. Drake, B.M. Glavinčevski, R.E. Humphries, and A. Majid, 1426.

Drake, J.E.

The photoelectron spectra of dimethylgermane, difluoro- and dichlorodimethylgermane. J.E. Drake, B.M. Glavinčevski, and K. Gorzelska, 2278.

Drake, J.E.

A ¹H and ¹³C nuclear magnetic resonance study of silicon and germanium chalcogenide derivatives. J.E. Drake, B.M. Glavinčevski, R. Humphries, and A. Majid, 3253.

Droghini, R.

Synthesis of a thioanalogue of neamine. The reaction of nitrosochloroadducts of glycals with thiols. G. Kavadias, R. Droghini, Y. Pépin, M. Ménard, and P. Lapointe, 1056.

Droghini, R.

Aminocyclitols. III. Synthesis of diaminocyclohexanediols. G. Kavadias and R. Droghini, 1870.

Drouin, M.

Infrared laser induced decomposition of pentafluoroacetone. M. Drouin, P.A. Hackett, C. Willis, and M. Gauthier, 3053.

Dubois, J.

Anomalie de formation d'une goutte de mercure à une électrode polarographique. H. Ménard et J. Dubois, 565.

Duer, W.C.

On the use of dilution calorimetry in the study of hydrogen-bonding self-association reactions: benzoic acid in benzene. T. Krishnan, W.C. Duer, S. Goldman, and J.-L. Fortier, 530.

Dumont, C.

Identification des configurations relatives d'alcools secondaires α-cyclopropylidéniques et α-vinylcyclopropaniques. Attribution de structure aux éthyl-6 diméthyl-2,4 oxa-3 bicyclo[3.1.01.5]hexanes. M. Vincens, C. Dumont et M. Vidal, 2314.

Dunford, H.B.

The oxidation of ascorbic acid and hydroquinone by perhydroxyl radicals. A flash photolysis study. A.D. Nadezhdin and H.B. Dunford, 3017.

Dunham, A.

1

On the planarity of the NSi₃ skeleton in the trisilylamine molecule. A normal coordinate analysis involving complex symmetry coordinates. H.F. Shurvell, A. Dunham, S.J. Cyvin, and J. Brunvoll, 1779.

Dunn, G.E.

Kinetics and mechanism of decarboxylation of some pyridinecarboxylic acids in aqueous solution. III. 3-Hydroxy- and 3-aminopyridine-2-carboxylic acids. G.E. Dunn, H.F. Thimm, and R.K. Mohanty, 1098.

Duong-Nhu-Hoa

The application of resonant ion ejection to quadrupole ion storage mass spectrometry: a study of ion/molecule reactions in the QUISTOR. M.A. Armitage, J.E. Fulford, Duong-Nhu-Hoa, R.J. Hughes, and R.E. March, 2108.

Durand, J.

Etude structurale du monofluorophosphate de potassium K₂PO₃F. J.-L. Payen, J. Durand, L. Cot et J.-L. Galigne, 886.

Sur quelques sulfites de cations monovalents; étude structurale de LiCsSO₃ · 2H₂O. C. Archer, J. Durand, L. Cot et J.-L. Galigne, 200

Durand, R.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Durocher, G.

Electronic spectroscopy of aromatic Schiff's bases. III. Luminescence in some p-substituted benzylideneaniline molecules. M. Belletête and G. Durocher, 2539.

Durst, T.

α, β-Epoxy sulfoxides and sulfones. Synthesis and some reactions. T. Durst, K.-C. Tin, F. de Reinach-Hirtzbach, J.M. Decesare, and M.D. Ryan, 258.

Benzocyclobutyl phenyl sulfone. An evaluation of its potential as a precursor to substituted benzocyclobutenes and orthoquinodimethanes. B.D. Gowland and T. Dürst, 1462.

Dust, J.M.

The formation and interconversion of oxazines and dioxazines from the reaction of nitrosocarbonyl compounds with cyclopentadienes. L.H. Dao, J.M. Dust, D. Mackay, and K.N. Watson, 1712.

Dust, J.M.

Sterically hindered aromatic compounds. IX. Electron spin resonance and product studies of the dediazoniation reaction. L.R.C. Barclay, A.G. Briggs, W.E. Briggs, J.M. Dust, and J.A. Gray, 2172.

Eastman, A.M.

Alkanes with multiple asymmetric centers: synthesis, identification, and 13C nuclear magnetic resonance spectra. P. Lachance, S. Brownstein, and A.M. Eastman, 367.

Stereochemistry of the Bucherer-Bergs and Strecker reactions of tropinone, cis-bicyclo[3.3.0]octan-3-one and cis-3,4dimethylcyclopentanone. G.G. Trigo, C. Avendaño, E. Santos, J.T. Edward, and S.C. Wong, 1456.

Edward, J.T.

Acidity function 'failure.' I. 2-Thiohydantoins. J.T. Edward and S.C. Wong, 1980.

Edward, J.T.

Partial molal volumes of organic compounds in carbon tetrachloride. IV. Ketones, alcohols, and ethers. J.T. Edward, P.G. Farrell, and F. Shahidi, 2585.

Edward, J.T.

Effect of solvent (benzene, ethanol, cyclohexane) on the partial molal volumes of organic compounds. J.T. Edward, P.G. Farrell, and F. Shahidi, 2887.

Edward, J.T.

Partial molal volumes of organic compounds in carbon tetrachloride. V. Cyclic alkanes, ethers, alcohols, ketones, and bromides. J.T. Edward, P.G. Farrell, and F. Shahidi, 2892.

Edwards, D.B.

Preparation of copper(1) carbonyl hexafluoroarsenate, CuCO+AsF₆-, and copper(1) trifluorophosphine hexafluoroarsenate, CuPF₃+AsF₆. C.D. Desjardins, D.B. Edwards, and J. Passmore, 2714.

The crystal and molecular structures of bromotricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)rhenium(I) and tricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)tungsten(0). R.E. Cobbledick, L.R.J. Dowdell, F.W.B. Einstein, J.K. Hoyano, and L.K. Peterson, 2285.

Eisenberg, A.

Variable-temperature Raman spectroscopy as a probe of the supermolecular structure of ionomers. A. Neppel, I.S. Butler, and A. Eisenberg, 2518.

El-Eazby, M.S.

Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Eazby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 104.

El-Ezaby, M.S.

Erratum: Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Ezaby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 2538.

Structure et réactivité des benzoxazoles: étude par résonance magnétique nucléaire du carbone-13. J. Llinares, J.-P. Galy, R. Faure, E.-J. Vincent et J. Elguero, 937.

El-Khawaga, A.M.

Photolysis of diarylcadmium compounds in benzene. A.M. Osman, A.I. Khodair, A.A. Abdel-Wahab, and A.M. El-Khawaga,

Ellis, B.E.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Erikson, C.M.

A 1.ew method for the determination of the relative acidities of alcohols in alcoholic solutions. The nucleophilicities and competitive reactivities of alkoxides and phenoxides. W. Reeve, C.M. Erikson, and P.F. Aluotto, 2747.

Erno, B.

Stereoselective interaction of a tridentate Schiff base complex of nickel(II) and amino acids. B. Erno and R.B. Jordan, 883.

Ernst. S.

Comment: Ultrasonic velocities for deuterium oxide - water mixtures at 298.15 K. S. Ernst and J. Glinski, 2333.

Eweiss, N.F.

Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Eazby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 104.

Eweiss, N.F.

Erratum: Cobalt(II), nickel(II), and copper(II) complexes of di- and tetrapeptides containing tyrosine and glycine residues. M.S. El-Ezaby, J.M. Al-Hassan, N.F. Eweiss, and F. Al-Massaad, 2538.

Cycloadditions and other chemistry of 4-oxygenated pyrazoles. P.J. Fagan, E.E. Neidert, M.J. Nye, M.J. O'Hare, and W.-P. Tang, 904.

Failli, A.

The synthesis of cyclic peptides by the four component condensation (4 CC). A. Failli, H. Immer, and M. Götz, 3257.

Falk, M.

Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 404.

Falk, M.

Erratum: Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 2003.

Comment: 7 \alpha-Acetoxydihydronomilin and mexicanolide: limonoids from Xylocarpus granatum (Koenig). A.S. Ng and A.G. Fallis, 3088.

Faniran, J.A.

Electron spin resonance study of radical adducts of unsaturated dicarboxylic and tricarboxylic acids. B.B. Adeleke and J.A. Faniran, 1500.

Partial molal volumes of organic compounds in carbon tetrachloride. IV. Ketones, alcohols, and ethers. J.T. Edward, P.G. Farrell, and F. Shahidi, 2585.

Farrell, P.G.

Effect of solvent (benzene, ethanol, cyclohexane) on the partial molal volumes of organic compounds. J.T. Edward, P.G. Farrell, and F. Shahidi, 2887.

Farrell, P.G.

Partial molal volumes of organic compounds in carbon tetrachloride. V. Cyclic alkanes, ethers, alcohols, ketones, and bromides. J.T. Edward, P.G. Farrell, and F. Shahidi, 2892.

Structure et réactivité des benzoxazoles: étude par résonance magnétique nucléaire du carbone-13. J. Llinares, J.-P. Galy, R. Faure, E.-J. Vincent et J. Elguero, 937.

Favre-Bonvin, J.

Dihydroxy-4',5 tétraméthoxy-2',3,7,8 flavone, et hydroxy-5 pentaméthoxy-2',3,4',7,8 flavone, deux nouveaux composés naturels isolés de Notholaena affinis (Ptéridophytes). M. Jay, J. Favre-Bonvin et E. Wollenweber, 1901.

Fawcett, W.R.

Double layer structure at the mercury/dimethylformamide interface. W.R. Fawcett, B.M. Ikeda, and J.B. Sellan, 2268.

Feinstein, S.A.

Pyrolysis of cyclopentane behind reflected shock waves. B.L. Kalra, S.A. Feinstein, and D.K. Lewis, 1324.

Ferguson, G.

Structural studies of steric effects in phosphine complexes. Part VII. Synthesis, crystal and molecular structure of the chloroperchloratotri(o-tolyl)phosphinemercury(II) dimer. E.C. Alyea, S. Dias, G. Ferguson, and M. Khan, 2217.

Entropy changes and structural implications for crystalline phases of pyrazine. R.K. Boyd, J. Comper, and G. Ferguson, 3056.

Ferhat-Hamida, Z.

Thermodynamic properties of binary mixtures containing thiaalkanes. II. Thermal pressure coefficients of pure compounds at 298.15 K. R. Philippe, Z. Ferhat-Hamida, and J.C. Merlin, 3135.

Active surface centres in vanadium pentoxide/alkali metal sulphate heterogeneous catalysts for 2-proponal decomposition. D.V. Fikis, W.J. Murphy, and R.A. Ross, 2464.

Filby, J.E.

Yields of excited states from thermolysis of some 1,2-dioxetanes. K.R. Kopecky and J.E. Filby, 283.

Finlayson, A.J.

Reaction of alanine-3-sulfinic acid with 2-mercaptoethanol. A.J. Finlayson, S.L. MacKenzie, and J.W. Finley, 2073.

Reaction of alanine-3-sulfinic acid with 2-mercaptoethanol. A.J. Finlayson, S.L. MacKenzie, and J.W. Finley, 2073.

Finley, J.W.

Ipso chlorination of 4-alkylphenols. Formation of 4-alkyl-4-chlorocyclohexa-2,5-dienones. A. Fischer and G.N. Henderson, 552.

Fischer, A.

Ipso nitration XXI. Nitration of p-tolylalkanoic acids and derivatives: spiro adducts. A. Fischer, D.R.A. Leonard, and R. Röderer, 2527

Fleming, M.P.

A correction in the published nuclear magnetic resonance spectra of trans-camphane-2,3-diols. M.A. Johnson and M.P. Fleming. 318.

Fletcher, J.W.

Flash photolysis of alkali metal anions in tetrahydrofuran and dimethoxyethane. W.A. Seddon, J.W. Fletcher, F.C. Sopchyshyn, and E.B. Selkirk, 1792.

Fletcher, S.

The fine structure of the Kolmogoroff-Avrami theorem. A. Smith and S. Fletcher, 1304.

Fliszár, S.

Charge distributions and chemical effects. XIX. Analysis of 'bonded' and 'non-bonded' energy contributions in saturated hydrocarbons. S. Fliszár and M.-T. Béraldin. 1772.

The chlorosulfonyl moiety as a leaving group: hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Fonseca, S.F.

¹³C nuclear magnetic resonance spectral and conformational analysis of naturally occurring tetrahydrofuran lignans. S.F. Fonseca, L.E.S. Barata, E.A. Rúveda, and P.M. Baker, 441.

Forel, M.T.

Etude de l'ion HC₂O₄ en solution aqueuse par spectrométrie infrarouge et Raman. M. Jaber, F. Bertin et M.T. Forel, 876.

Forrest, B.J.

Structures and properties of mixtures of branched chain compounds and lecithin: phytol, α-tocopherol (vitamin E), and phytanic acid. R.J. Cushley, B.J. Forrest, A. Gillis, and J. Tribe, 458.

Forrest, B.I.

Carbon-13 nuclear magnetic resonance studies of the cholesteryl ester - phosphatidylcholine system. R.J. Cushley and B.J. Forrest, 2364.

Fortier, J.-L.

On the use of dilution calorimetry in the study of hydrogen-bonding self-association reactions: benzoic acid in benzene. T. Krishnan, W.C. Duer, S. Goldman, and J.-L. Fortier, 530.

Electron spin resonance observations of photochemically generated contact ammonium ion-pairs of fluoro-substituted ketones. K.S. Chen, T. Foster, and J.K.S. Wan, 600.

Photochemical α-cleavage and hydrogen abstraction in deoxybenzoin: a laser spectroscopy investigation. J.-P. Fouassier and A. Merlin, 2812.

Fouques, C.E.M.

Nuclear magnetic resonance reorientational correlation functions: the odd-valued spectral components. C.E.M. Fouques and L.G. Werbelow, 2329.

Francis, J.E.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Fraser, R.R.

Barriers to rotation about the N-CO bond in N-vinyl amides; a new two-site approximation method. R.R. Fraser, J.-L.A. Roustan, and J.R. Mahajan, 2239.

Fraser-Reid, B.

A stereoselective synthesis of sucrose. Part II. Theoretical and chemical considerations. B. Fraser-Reid and D.E. Iley, 645. Fraser-Reid, B.

A stereoselective synthesis of sucrose. Part III. Spectroscopic analyses of key intermediates. D.E. Iley and B. Fraser-Reid, 653. Fraser-Reid, B.

Stereoselective routes to some unsaturated α - and β -C-glycopyranosides. B. Fraser-Reid, R.D. Dawe, and D.B. Tulshian, 1746.

Fraser-Reid, B.

A synthetic route to 4-C-methyl-xylo-furanose. T.F. Tam and B. Fraser-Reid, 2818.

Freeman, G.R.

Band resolution of optical spectra of solvated electrons in water, alcohols, and tetrahydrofuran. F.-Y. Jou and G.R. Freeman, 591.

The reactivity of allyl and propargyl alcohols with solvated electrons: temperature and solvent effects. A.M. Afanassiev, K. Okazaki, and G.R. Freeman, 839.

Freeman, G.R.

Interaction of the unusual bonds in cyclopropane with an extra electron in the dense fluid. N. Gee and G.R. Freeman, 1906.

Freeman, G.R.

Electron scattering cross sections of gaseous pentanes and hexanes. G.R. Freeman, I. György, and S.S.-S. Huang, 2626.

Freeman, G.R.

Density and temperature effects on electron mobilities in gaseous butene isomers. T. Wada and G.R. Freeman, 2716.

Frenier, W.W.

Hydrolysis and ammonolysis of EDTA in aqueous solution. R.J. Motekaitis, D. Hayes, A.E. Martell, and W.W. Frenier, 1018. Fresco, J.

Solvent extraction of monothioacetylacetone chelates of zinc(II) and nickel(II). M. Leban, D. Jeffries, and J. Fresco, 3190.

Frost, D.C.

The photoelectron spectra of the methylbromamines and unsubstituted bromamines. D. Colbourne, D.C. Frost, C.A. McDowell, and N.P.C. Westwood, 1279.

Fruchier, A

Polymerisation of the 3-halogenomethyl-5-methyl(or 5-phenyl)-3'(5')-methyl-1,5'(3')-dipyrazolylmethane. Synthesis of new macrocyclic systems. A. Fruchier, A. Ramdani, and G. Tarrago, 1897.

Fuchs, R.

Heats of vaporization and gaseous heats of formation of some five- and six-membered ring alkenes. R. Fuchs and L.A. Peacock, 2302.

Fujiwara, F.Y.

Structural changes at hydrophobic/hydrophilic interfaces induced by thermal changes and isotopic composition of the water. F.Y. Fujiwara and L.W. Reeves, 478.

Fulford, J.F.

The application of resonant ion ejection to quadrupole ion storage mass spectrometry: a study of ion/molecule reactions in the QUISTOR. M.A. Armitage, J.E. Fulford, Duong-Nhu-Hoa, R.J. Hughes, and R.E. March, 2108.

Funabashi, K.

The role of electron-phonon interaction on non-Gaussian transport in spectral changes of trapped electrons in glasses. K. Funabashi and W.H. Hamill, 197.

Gagnon, C.

Crystal structure of dichlorobis (1-methylcytosine) cadmium (II). C. Gagnon, A.L. Beauchamp, and D. Tranqui. 1372.

Gaillot, J.-M.

Synthèse et réactivité des halogéno-2 sulfonyl-2 aziridines. J.-M. Gaillot, Y. Gelas-Mialhe et R. Vissière, 1958.

Gal. J.-Y.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127.

Galatsis, P.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Galeazzi, E.

Synthesis of 1,3-dihydro-2*H*-benzo-1,4-diazepin-2-ones and 1,2-dihydropyrazin-2-ones via iminophosphoranes. Mass spectra of 1,5-disubstituted-1,2-dihydropyrazin-2-ones. J. Ackrell, E. Galeazzi, J.M. Muchowski, and L. Tökés, 2696.

Galigne, J.-L.

Etude structurale du monofluorophosphate de potassium K₂PO₃F. J.-L. Payen, J. Durand, L. Cot et J.-L. Galigne, 886.

Galigne, J.-L.

Sur quelques sulfites de cations monovalents; étude structurale de LiCsSO₃ • 2H₂O. C. Archer, J. Durand, L. Cot et J.-L. Galigne, 899.

Gallop, L.D.

The application of DPASV to the determination of the low temperature solubility of lead sulphate in sulphuric acid solutions. E.M.L. Valeriote, L.D. Gallop, and P.J. Aragon, 974.

Galy, J.-P.

Structure et réactivité des benzoxazoles: étude par résonance magnétique nucléaire du carbone-13. J. Llinares, J.-P. Galy, R. Faure, E.-J. Vincent et J. Elguero, 937.

Gandini, A

Decomposition of vinyl chloride induced by multiphoton absorption of infrared radiation. I. Decomposition yields. A. Gandini, C. Willis, R.A. Back, and J.M. Parsons, 953.

Gardner, S.A.

Fragmentation and rearrangement processes in the mass spectra of perfluoroaromatic compounds. Part XI. Heterocyclic derivatives of phosphorus and some transition metals. T.R.B. Jones, J.M. Miller, S.A. Gardner, and M.D. Rausch, 335.

Garg, S.K.

The conformation and reorientation of enclathrated 1,2-dichloroethane. S.K. Garg, D.W. Davidson, S.R. Gough, and J.A. Ripmeester, 635.

Garneau, F.-X.

The photoinitiated isomerization and addition reactions of liquid 2-butenes in the presence of hydrogen sulfide. F.-X. Garneau and I. Szczerek, 2991.

Garratt, D.G.

The addition of 2,4-dinitrobenzenesulphenyl chloride to 1,3-disubstituted allenes: a reexamination. D.G. Garratt and P. Beaulieu, 119.

Garratt, D.G.

Chemoselectivity in the synthesis of thiocyanates and isothiocyanates: the reaction of alkenes with benzeneselenenyl thiocyanate in methylene chloride. D.G. Garratt, M.D. Ryan, and M. Ujjainwalla, 2145.

Garratt, D.G.

The reaction of benzeneselenenyl thiocyanate with E- and Z-1-phenylpropene: evidence for anomalous stereospecific syn addition. D.G. Garratt, 2180.

Gastmans, D.F.

Etude empirique de la stabilité des hydrocarbures polycycliques non alternants. J.P. Gastmans, D.F. Gastmans et S.F. Slade, 2864. Gastmans, J.P.

Etude empirique de la stabilité des hydrocarbures polycycliques non alternants. J.P. Gastmans, D.F. Gastmans et S.F. Slade, 2864.

Gauthier, M.

Infrared laser induced decomposition of pentafluoroacetone. M. Drouin, P.A. Hackett, C. Willis, and M. Gauthier, 3053.

Gauthier, M.

Infrared multiphoton chemistry of fluoroform-d. M. Gauthier, R. Pilon, P.A. Hackett, and C. Willis, 3173.

Gedge, S.

Carbonyl oxygen exchange of glycol monoesters. Rate and equilibrium constants for the formation of a tetrahedral intermediate. R.A. McClelland, M. Ahmad, J. Bohonek, and S. Gedge, 1531.

Gee. N.

Interaction of the unusual bonds in cyclopropane with an extra electron in the dense fluid. N. Gee and G.R. Freeman, 1906.

Gelas-Mialhe, Y.

Synthèse et réactivité des halogéno-2 sulfonyl-2 aziridines. J.-M. Gaillot, Y. Gelas-Mialne et R. Vissière, 1958.

Geneste, P.

Relation entre structure et réactivité dans les réactions d'addition nucléophile sur les dérivés carbonylés: influence des interactions diaxiales-1,3 sur la réactivité de cyclanones et cyclanols stériquement encombrés. B. Beyer, G. Lamaty, C. Moreau et P. Geneste, 2848.

Georges, M.

Formation of aminals from amines via Pummerer rearrangement. S. Rakhit, M. Georges, and J.F. Bagli, 1153.

Germain, G.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Gesser, H.D.

The solvent extraction of Fe(III) from acidic chloride solutions by open cell polyurethane foam sponge (OCPUFS). J.J. Oren, K.M. Gough, and H.D. Gesser, 2032.

Ghoneim, M.M.

Polarographic reduction of phenolphthalein, cresolphthalein, thymolphthalein, and α -naphtholphthalein in aqueous and nonaqueous ethanolic solutions. M.M. Ghoneim and M.A.A. Ashy, 1294.

Giam, C.S.

Some reactions of 1,2-dihydropyridines with organic azides. Synthesis of diazabicylo[4.1.0]hept-4-enes, 1,2,5,6-tetrahydropyridylidene-2-cyan (sulfon, carbon) amides. T.A. Ondrus, E.E. Knaus, and C.S. Giam, 2342.

Gibson, M.S.

Ring forming reactions of some amine inides with a note on electrophilic bromination. I.D. Brindle and M.S. Gibson, 3155.

Gillis, A.

Structures and properties of mixtures of branched chain compounds and lecithin: phytol, α -tocopherol (vitamin E), and phytanic acid. R.J. Cushley, B.J. Forrest, A. Gillis, and J. Tribe, 458.

Giri, B.P.

Oxidation products of N-substituted imines and ketone hydrazones in the presence of sodium in ether: new and convenient syntheses of diimines and substituted aryl diazomethanes. B.P. Giri, G. Prasad, and K.N. Mehrotra, 1157.

Glavinčevski, B.M.

Mass spectra of bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide. J.E. Drake, B.M. Glavinčevski, H.E. Henderson, and C. Wong, 1162.

Glavinčevski, B.M.

The ¹³C chemical shifts of various methylgermanium derivatives. J.E. Drake, B.M. Glavinčevski, R.E. Humphries, and A. Majid, 1426.

Glavinčevski, B.M.

The photoelectron spectra of dimethylgermane, difluoro- and dichlorodimethylgermane. J.E. Drake, B.M. Glavinčevski, and K. Gorzelska, 2278.

Glavinčevski, B.M.

A ¹H and ¹³C nuclear magnetic resonance study of silicon and germanium chalcogenide derivatives. J.E. Drake, B.M. Glavinčevski, R. Humphries, and A. Majid, 3253.

Glinski, J.

Comment: Ultrasonic velocities for deuterium oxide - water mixtures at 298.15 K. S. Ernst and J. Glinski. 2333.

Glionna, M.T.J.

The reaction of methylene radicals with methyl isocyanide. M.T.J. Glionna and H.O. Pritchard, 1229.

Glionna, M.T.J.

The thermal isomerisation of allyl isocyanide. M.T.J. Glionna and H.O. Pritchard, 2482.

Goel, R.G.

Triphenylphosphine complexes of mercury (II) acetate and fluoroacetates. Preparation, characterization, and spectral studies. T. Allman. R.G. Goel, and P. Pilon, 91.

Goel, R.G.

Mercury(II) cyanide complexes of bulky phosphines. Preparation, characterization, and spectral studies. R.G. Goel, W.P. Henry, and W.O. Ogini, 762.

Goldman, M.F.

The hydrolyses of some sterically crowded benzoate esters in sulfuric acid. The excess acidity method at different temperatures. R.A. Cox, M.F. Goldman, and K. Yates, 2960.

Goldman, S.

On the use of dilution calorimetry in the study of hydrogen-bonding self-association reactions: benzoic acid in benzene. T. Krishnan, W.C. Duer, S. Goldman, and J.-L. Fortier, 530.

Golebiewski, W.M.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Gopal, R.

Conformations of bridged diphenyls. XIV. Crystal structure of 2-(4'-carbomethoxy-2'-aminophenoxy)-1,3,5-trimethylbenzene and endocyclic angles in bridged diphenyls. R. Gopal, W.D. Chandler, and B.E. Robertson, 2767.

Gorzelska, K

The photoelectron spectra of dimethylgermane, difluoro- and dichlorodimethylgermane. J.E. Drake, B.M. Glavinčevski, and K. Gorzelska, 2278.

Goswami, N.

Kinetic studies on the catalytic reduction of nitrotoluene by hydrazine. N. Goswami and M.L. Rahman, 3047.

Götz, M.

The synthesis of cyclic peptides by the four component condensation (4 CC). A. Failli, H. Immer, and M. Götz, 3257.

Gough, K.M.

The solvent extraction of Fe(III) from acidic chloride solutions by open cell polyurethane foam sponge (OCPUFS). J.J. Oren, K.M. Gough, and H.D. Gesser, 2032.

Gough, S.R.

The conformation and reorientation of enclathrated 1,2-dichloroethane. S.K. Garg, D.W. Davidson, S.R. Gough, and J.A. Ripmeester, 635.

Gowland, B.D.

Benzocyclobutyl phenyl sulfone. An evaluation of its potential as a precursor to substituted benzocyclobutenes and *ortho*-quinodimethanes. B.D. Gowland and T. Durst, 1462.

Gowland, J.A.

A nuclear magnetic resonance study of pyridinium and p-anisidinium carboxylate salts. J.A. Gowland and R.A. McClelland, 2140.

Graham, M.R.

Conformational preferences of the *syn*-pyridinecarboxaldehyde oximes. W. Danchura, R.E. Wasylishen, J. Delikatny, and M.R. Graham, 2135.

Grattan, D.W.

The thermal decomposition of 1-(2'-cyano-2'-propoxy)-4-oxo-2,2,6,6-tetramethylpiperidine. D.W. Grattan, D.J. Carlsson, J.A. Howard, and D.M. Wiles, 2834.

Grav. J.A.

Sterically hindered aromatic compounds. IX. Electron spin resonance and product studies of the dediazoniation reaction. L.R.C. Barclay, A.G. Briggs, W.E. Briggs, J.M. Dust, and J.A. Gray, 2172.

Green, M.K.

The nature of the NADP complex with manganese(II) ions as studied by proton and phosphorus magnetic resonance. M.K. Green and G. Kotowycz, 2434.

Greenhough, T.J.

Photochemical ring expansion of a bridged cyclobutanone. Crystal and molecular structure of the photoproduct acetal. T.J. Greenhough, J.R. Scheffer, J. Trotter, and L. Walsh, 2669.

Greenhouse, R

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Gregory, B.

Some reactions of a 4-(1-chloroethyl)-1,4-dihydropyridine. B. Gregory, E. Bullock, and T.-S. Chen, 44.

Grein, F.

An ab initio and ion cyclotron resonance study of the protonation of borazine. C.E. Doiron, F. Grein, T.B. McMahon, and K. Vasudevan, 1751.

Griller, D.

Cyclization of the 4-cyanobutyl radical. D. Griller, P. Schmid, and K.U. Ingold, 831.

Frindley, T.B

Crystal structures of medium ring compounds. Part III. The crystal and molecular structure of *trans-anti-trans-4*,5:9,10-biscyclohexano-1,3,6,8,-tetraoxecane. A. Terzis and T. B. Grindley, 2154.

Gruda, I.

Synthesis of long-chain coumarines and 2*H*-chromenes. Spectral and monolayer properties. H.P. Pommier, J. Baril, I. Gruda, and R.M. Leblanc, 1377.

Gualtieri, R.J.

Ethylenediamine–*N*,*N*′-diacetic acid complexes with divalent manganese, zinc, cadmium, and lead: a thermodynamic study. R.J. Gualtieri, W.A.E. McBryde, and H.K.J. Powell, 113.

Guevremont, R

Application of the Osterberg-Sarkar-Kruck method for obtaining free ion concentrations in solutions of complex equilibria. R. Guevremont and D.L. Rabenstein, 466.

Guiraum, A.

Contribution to the solution chemistry and polarographic behaviour of anthrapurpurin complexan. F. Capitan, A. Guiraum, J.L. Vilchez, and J.F. Arenas, 3243.

Gumbley, S.J.

Rate-acidity profiles for exchange of the 4-methyl protons in amino, imino, and keto pyrimidines. R. Stewart, S.J. Gumbley, and R. Srinivasan, 2783.

Gunn, B.C.

Synthesis of potential DNA bisintercalative agents of the phenanthridinium class. J.W. Lown, B.C. Gunn, K.C. Majumdar, and E. McGoran, 2305.

Gupta, R.N.

The biosynthesis of the Lythraceae alkaloids. I. The lysine-derived fragment. R.N. Gupta, P. Horsewood, S.H. Koo, and I.D. Spenser, 1606.

Guthrie, J.P.

Tautomerization equilibria for phosphorous acid and its ethyl esters, free energies of formation of phosphorous and phosphonic acids and their ethyl esters, and pK_a values for ionization of the P—H bond in phosphonic acid and phosphonic esters. J.P. Guthrie, 236.

Guthrie, J.P.

The end content of simple carbonyl compounds: a thermochemical approach. J.P. Guthrie and P.A. Cullimore, 240.

Guthrie, J.P.

Tautomeric equilibria and pKa values for 'sulfurous acid' in aqueous solution: a thermodynamic analysis. J.P. Guthrie, 454.

Guthrie, J.P.

The enol content of simple carbonyl compounds: a kinetic approach. J.P. Guthrie, 797.

Guthrie, J.P.

The enol content of simple carbonyl compounds: an approach based upon pK_a estimation. J.P. Guthrie, 1177.

György, I.

Electron scattering cross sections of gaseous pentanes and hexanes. G.R. Freeman, I. György, and S.S.-S. Huang, 2626.

Habeeb, J.J.

The electrochemical synthesis of some heteronuclear metal carbonyls. J.J. Habeeb, D.G. Tuck, and S. Zhandire, 2196.

Hackett, P.A

Erratum: Enrichment of nitrogen-15 by the direct laser photolysis of ammonia- d_3 in the \tilde{A} - \tilde{X} transition. P.A. Hackett, R.A. Back, and S. Koda, 796.

Hackett, P.A.

Infrared laser induced decomposition of pentafluoroacetone. M. Drouin, P.A. Hackett, C. Willis, and M. Gauthier, 3053.

Hackett, P.A.

Infrared multiphoton chemistry of fluoroform-d. M. Gauthier, R. Pilon, P.A. Hackett, and C. Willis, 3173.

Hadni, A

Vibrations de réseau de quelques dérivés dihalogénés du benzène. J. Serrier, F. Brehat, B. Wyncke et A. Hadni, 1814.

Hair, M.L.

Spin trapping of the 'CO₂" radical in aqueous medium. J.R. Harbour and M.L. Hair, 1150.

Hakimelahi, G.H.

 β -Lactams. V. The synthesis of p,t-4-hydroxymethylnocardicin A (17N), p,t-hydroxymethyl-N-phenylacetylnocardicinic acid (8N-f), and their α -epimers 17U and 8U-f. G. H. Hakimelahi and G. Just, 1932.

Hakimelahi, G.H.

β-Lactams. VI. The synthesis of homocycloanalogues of nocardicin A. G.H. Hakimelahi and G. Just, 1939.

Hall, L.D.

C-Stannane derivatives of carbohydrates. L.D. Hall, P.R. Steiner, and D.C. Miller, 38.

Halpin, C.J.

Reply to comment: Ultrasonic velocities for deuterium oxide – water mixtures at 298.15 K. O. Kiyohara, C.J. Halpin, and G.C. Benson, 2335.

Hambly, G.F.

Aliphatic diazo compounds. XII. The synthesis of 5-endo-hetero-atom-substituted 3-diazo-2-norbornanones and the proton magnetic resonance spectra of these diazo ketones and their precursors. P. Yates and G.F. Hambly, 1656.

Hambly, G.F.

Aliphatic diazo compounds. XIII. The copper-catalyzed decomposition of 5-endo-hetero-atom-substituted 3-diazo-2-norbornanones. P. Yates and G.F. Hambly, 1668.

Hamed, M.M.

The electron-donating properties of some phenylfurans. Charge transfer studies. R. Abu-Eittah and M.M. Hamed, 2337.

Hamill W H

The role of electron-phonon interaction on non-Gaussian transport in spectral changes of trapped electrons in glasses. K. Funabashi and W.H. Hamill, 197.

Hamoud, H.S.

Synthesis and spectroscopic studies of the pyrimidine-2(1H)thione derivatives. F.H. Al-Hajjar, Y.A. Al-Farkh, and H.S. Hamoud, 2734.

Hanna, H.R.

Nucleophilic substitution in tris(pentafluorophenyl)phosphine. H.R. Hanna and J.M. Miller, 1011.

Harbour, J.R.

Spin trapping of the 'CO₂- radical in aqueous medium. J.R. Harbour and M.L. Hair, 1150.

Hardstaff, W.R.

The chlorosulfonyl moiety as a leaving group: hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Harrison, A.G.

The structure and fragmentation of protonated carboxylic acids in the gas phase. N.E. Middlemiss and A.G.Harrison, 2827.

Harrod, J.F.

Chemistry of phenoxo complexes. VI. Reactions of phenoxocopper(1) complexes with carbon tetrachloride. J.F. Harrod and P. van Gheluwe, 890.

Hartman, J.S.

4 ¹³C nmr study of metal ion binding to pyridoxine. J.S. Hartman and E.C. Kelusky, 2118.

Hasinoff, B.B.

Fast reaction kinetics of the binding of bromide to iron(III) studied on a high pressure laser temperature jump apparatus. B.B. Hasinoff, 77.

Hassan, M.E.

The preparation and properties of some thioacylmethylenethiazolines and isothiazolines. D.M. McKinnon, M.E. Hassan, and M.S. Chauhan, 207.

Hayami, J.-i.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Havashi, K.

A new synthesis of spirovetivanes via the spiro acyloin intermediate. T. Ibuka, K. Hayashi, H. Minakata, Y. Ito, and Y. Inubushi, 1579.

Hayes, D.

Hydrolysis and ammonolysis of EDTA in aqueous solution. R.J. Motekaitis, D. Hayes, A.E. Martell, and W.W. Frenier, 1018.

Head, J.D.

Use of $X \alpha SW$ calculations for parametrising the CNDO method for the heavier elements. II. Tests for the elements aluminium to sulphur. J.D. Head and K.A.R. Mitchell, 1826.

Henderson, G.N.

Ipso chlorination of 4-alkylphenols. Formation of 4-alkyl-4-chlorocyclohexa-2,5-dienones. A. Fischer and G.N. Henderson, 552.

Henderson, H.E.

Mass spectra of bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide. J.E. Drake, B.M. Glavinčevski, H.E. Henderson, and C. Wong, 1162.

Henriquez, R.

Polar radicals XIII. A reinvestigation of the polar effects reported for the hydrogen transfer reactions of the 1-ethylpentyl radical. D.D. Tanner, R. Henriquez, and D.W. Reed, 2578.

Henry, P.M.

π-Complex equilibria between ethylene and PdCl₄²⁻ in aqueous solution. R.N.Pandey and P.M. Henry, 982.

Henry, W.P.

Mercury (II) cyanide complexes of bulky phosphines. Preparation, characterization, and spectral studies. R.G. Goel, W.P. Henry, and W.O. Ogini, 762.

Hepler, L.G.

Apparent molar heat capacities and volumes of aqueous electrolytes at 25°C: Cr(NO₃)₃, LaCl₃, K₃Fe(CN)₆, and K₄Fe(CN)₆. J.J. Spitzer, I.V. Olofsson, P.P. Singh, and L.G. Hepler, 2798.

Herman, J.A.

Rare-gas sensitized radiolysis of gaseous isobutene: ionic processes. J.A. Herman, 2633.

Herring, F.G.

X-ray crystallographic study of Ni(II)bis(morpholine-N-carbodithioate) and epr studies of Cu(II) bis(morpholine-N-carbodithioate) and Cu(II)bis(pyrrolidine-N-carbodithioate). F.G. Herring, J.M. Park, S.J. Rettig, and J. Trotter, 2379.

Hessley, R.K.

A spectrophotometric study of the complex formation between cobalt(III) and *trans*-1.2-cyclohexanedinitrilotetraacetic acid (CyDTA). R.K. Hessley, S. Waykole, and R.L. Sublett, 2292.

Hiemstra, H.

Carbon-13 nuclear magnetic resonance spectra of oxazoles. H. Hiemstra, H.A. Houwing, O. Possel, and A.M. van Leusen, 3168.

Hine, K.E.

Photoisomerization of protonated cyclohex-2-enones. R.F. Childs, K.E. Hine, and F.A. Hung, 1442.

Hiraoka, K.

Stabilities of complexes $(N_2)_n H^+$, $(CO)_n H^+$, and $(O_2)_n H^+$ for n=1 to 7 based on gas phase ion-equilibria measurements. K. Hiraoka, P.P.S. Saluja, and P. Kebarle, 2159.

Hirsch, G.

Ab initio SCF and CI calculations for ground and low-lying valence and Rydberg excited states of HOCl and HClO in linear and bent nuclear conformations. P.J. Bruna, G. Hirsch, S.D. Peyerimhoff, and R.J. Buenker, 1839.

Ho, P.-T.

Branched-chain sugars. Reaction of furanoses with formaldehyde: A simple synthesis of D- and L-apiose. P.-T. Ho, 381.

Ho, P.-T.

Branched-chain sugars: Reaction of furanoses with formaldehyde: A stereospecific synthesis of L-dendroketose. P.-T. Ho, 384.

Hogge, L.R.

The mass spectra of trifluoroacetyl-2,5-diketopiperazines. I. cyclo-(-Gly-X), cyclo-(-Ala-X) (X = Gly, Val, Leu, Ile), and cyclo-(-Ala-Ala). G.P. Slater and L.R. Hogge, 2037.

Hogge, L.R.

The mass spectra of trifluoroacetyl-2,5-diketopiperazines. II. cyclo-(-Val-Val/Leu/Ile), cyclo-(-Leu-Leu/Ile), and cyclo-(-Ile-Ile). G.P. Slater and L.R. Hogge, 2052.

Holland H.I.

Microbial hydroxylation of steroids. 5. Metabolism of androst-5-ene-3,17-dione and related compounds by *Rhizopus arrhizus* ATCC 11145. H.L. Holland and P.R.P. Diakow, 436.

Holland, H.L.

A versatile synthesis of spirobenzylisoquinoline and phthalideisoquinoline alkaloids. Conversion of a phthalideisoquinoline to spirobenzylisoquinolines. B.C. Nalliah, D.B. MacLean, H.L. Holland, and R. Rodrigo, 1545.

Holland, H.L.

Microbial hydroxylation of steroids. 6. Hydroxylation of C-6-substituted androst-4-ene-3,17-diones by *Rhizopus arrhizus* ATCC 11145. H.L. Holland and P.R.P. Diakow, 1585.

Holland, H.L.

The biosynthesis of protoberberine and related isoquinoline alkaloids. H.L. Holland, P.W. Jeffs, T.M. Capps, and D.B. MacLean, 1588.

Holland, H.L.

¹³C nuclear magnetic resonance spectra of some halosteroids, 6-ketosteroids, and related compounds. H.L. Holland and E.M. Thomas, 3069.

Holmes, J.L.

The reactivity of [C₃H₃+] ions; a thermochemical study. J.L. Holmes and F.P. Lossing, 249.

Holmes, J.L.

Isomeric cyclic [C₆H₁₀]+' ions. The energy barrier to ring opening. P. Wolkoff and J.L. Holmes, 348.

Holmes, J.L.

The kinetics and mechanisms of the gas phase pyrolyses of *exo-2*-norbornyl chloride and cyclopentyl chloride. J.L. Holmes, D.L. McGillivray, and D. Yuan, 2621.

Hong, P.N.

Excess heats of tri-n-alkylamines and tetraalkyl tin compounds in linear and branched alkanes: correlations of molecular orientations and steric hindrance effect. R. Philippe, G. Delmas, and P.N. Hong, 517.

Hooper, D.G.

Pyrolysis of trifluoroacetaldehyde, initiated by di-tertiary-butyl peroxide decomposition. L.F. Loueks, M.T.H. Liu, and D.G. Hooper, 2201.

Hootele, C.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Hopkins, S.E.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Hopkinson, A.C.

Gas-phase proton-transfer reactions of the hydronium ion at 298 K. G.I. Mackay, S.D. Tanner, A.C. Hopkinson, and D.K. Bohme, 1518.

Hopkinson, A.C.

Acid catalysis in the gas phase: dissociative proton transfer to formate and acetate esters. A.C. Hopkinson, G.I. Mackay, and D.K. Bolime, 2996.

Horsewood, P.

The biosynthesis of the Lythraceae alkaloids. I. The lysine-derived fragment. R.N. Gupta, P. Horsewood, S.H. Koo, and I.D. Spenser, 1606.

Horsewood, P.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Houlihan, F.

Electrophilie du ligande η^3 -allylique de complexes η^3 -allyl-dicarbonyl-nitrosyl-fer. J.L.A. Roustan and F. Houlihan, 2790.

Houwing, H.A.

Carbon-13 nuclear magnetic resonance spectra of oxazoles. H. Hiemstra, H.A. Houwing, O. Possel, and A.M. van Leusen, 3168. Howard, J.A.

The electron spin resonance spectrum of (CH₃)₃13COO'. J.A. Howard, 253.

Howard, J.A.

Absolute rate constants for hydrocarbon autoxidation. 26. Rate constants for reaction of the *tert*-butylperoxy radical with 1-bromo-2-methylbutane and 1-bromo-3-methylbutane and some related substituted butanes. J.A. Howard and J.H.B. Chenier, 2484.

Howard, J.A.

Absolute rate constants for hydrocarbon autoxidation. 27. On the question of a reversible rate controlling propagation reaction. J.A. Howard and S.B. Tong, 2755.

Howard, J.A.

Organometallic peroxy radicals. Part 5. Trialkylsilylperoxy and trialkylstannylperoxy radicals. J.A. Howard, J.C. Tait, and S.B. Tong, 2761.

Howard, J.A.

The thermal decomposition of 1-(2'-cyano-2'-propoxy)-4-oxo-2,2,6,6-tetramethylpiperidine. D.W. Grattan, D.J. Carlsson, J.A. Howard, and D.M. Wiles, 2834.

Hoyano, J.K.

The crystal and molecular structures of bromotricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)rhenium(I) and tricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)tungsten(0). R.E. Cobbledick, L.R.J. Dowdell, F.W.B. Einstein, J.K. Hoyano, and L.K. Peterson, 2285.

Hruska, F.E.

H nuclear magnetic resonance study of 2,2'-anhydro-O²-β-D-arabinosyluracil. Four- and five-bond coupling constants in the sugar moiety. F.E. Hruska, J.G. Dalton, and M. Remin, 2191.

Hsiao, C.-K.

Analysis of trace metal impurities in phthalocyanine pigments. R.O. Loutfy and C.-K. Hsiao, 2546.

Huang, S.S.-S.

Electron scattering cross sections of gaseous pentanes and hexanes. G.R. Freeman, I. György, and S.S.-S. Huang, 2626.

Hughes, D.W.

Fumaritine N-oxide. an alkaloid of Fumaria kralikii Jord. H.G. Kiryakov, D.W. Hughes, B.C. Nalliah, and D.B. MacLean, 53.

Hughes, R.J.

The application of resonant ion ejection to quadrupole ion storage mass spectrometry: a study of ion/molecule reactions in the QUISTOR. M.A. Armitage, J.E. Fulford, Duong-Nhu-Hoa, R.J. Hughes, and R.E. March, 2108.

Hullot, P.

Milieux hyperbasiques: Recherches sur les amides et lactames ω-halogénés. Essais de cyclisation. T. Cuvigny, P. Hullot, P. Mulot, M. Larcheveque et H. Normant, 1201.

Humber, L.G.

The synthesis of 5,6-dihydro-3,3-dimethyl-4,1-benzoxazonine-2,7(1*H*,3*H*)dione and its conversion into 1,3-dihydro-3,3-dimethylfuro[3,4-*b*] quinolines. C.A. Demerson and L.G. Humber, 3296.

Humphreys, R.W.R.

Substituent effects on the zero-field splitting parameters of diarylmethylene. Evidence for merostabilization in appropriately substituted diphenylmethylenes. R.W.R. Humphreys and D.R. Arnold, 2652.

Humphries, R.

A ¹H and ¹³C nuclear magnetic resonance study of silicon and germanium chalcogenide derivatives. J.E. Drake, B.M. Glavinčevski, R. Humphries, and A. Majid, 3253.

Humphries, R.E.

The ¹³C chemical shifts of various methylgermanium derivatives. J.E. Drake, B.M. Glavinčevski, R.E. Humphries, and A. Majid, 1426.

Hung, F.A.

Photoisomerization of protonated cyclohex-2-enones. R.F. Childs, K.E. Hine, and F.A. Hung, 1442.

Hunter, N.R.

Solvent effects on the photocycloaddition and photoenolisation reactions of isophorone. J.D. Shiloff and N.R. Hunter, 3301.

Hutton, H.M.

Solvent-induced changes in ${}^2J(H,F)$ for fluoroform via van der Waals interactions. Non-contact contributions to spin-spin coupling constants involving a proton? T. Schaefer, H.M. Hutton, and S.R. Salman, 1877.

Ibuka, T.

A new synthesis of spirovetivanes via the spiro acyloin intermediate. T. Ibuka, K. Hayashi, H. Minakata, Y. Ito, and Y. Inubushi. 1579.

Ige, J.

Kinetics and mechanism of oxidation of tris-(1,10-phenanthroline)iron(11) by chlorine and bromine and of the reduction of tris-(1,10-phenanthroline)iron(111) by iodide ions. J. Ige, J.F. Ojo, and O. Olubuyide, 2065.

Ihara, M

Studies on the syntheses of heterocyclic compounds. Part 782. Another total synthesis of (±)-tubulosine and (±)-deoxytubulosine. T. Kametani, Y. Suzuki, and M. Ihara, 1679.

Ikeda, B.M.

Double layer structure at the mercury/dimethylformamide interface. W.R. Fawcett, B.M. Ikeda, and J.B. Sellan, 2268.

Hey, D.E.

A stereoselective synthesis of sucrose. Part II. Theoretical and chemical considerations. B. Fraser-Reid and D.E. Iley, 645.

Hey, D.E

A stereoselective synthesis of sucrose. Part III. Spectroscopic analyses of key intermediates. D.E. Iley and B. Fraser-Reid, 653.

Immer H

The synthesis of cyclic peptides by the four component condensation (4 CC). A. Failli, H. Immer, and M. Götz, 3257.

Ingold, K.U.

Cyclization of the 4-cyanobutyl radical. D. Griller, P. Schmid, and K.U. Ingold, 831.

Inubushi, Y.

A new synthesis of spirovetivanes via the spiro acyloin intermediate. T. Ibuka, K. Hayashi, H. Minakata, Y. Ito, and Y. Inubushi, 1579.

Ireland, R.F.

The generation of C-glycosides through the enolate Claisen rearrangement. R.E. Ireland, C.S. Wilcox, S. Thaisrivongs, and N.R. Vanier, 1743.

Islam, M.F.

Kinetics of solvent extraction of metal ions with HEDHP. III. The kinetics and mechanism of solvent extraction of Cr(III) from acidic aqueous solutions with bis-(2-ethyl hexyl) phosphoric acid in benzene. M.F. Islam and R.K. Biswas, 3011.

Islam, N

Densities and kinematic viscosities of tetra-n-butylammonium iodide – nickel(II) chloride melts. N. Islam, A. Maroof, and I. Kochi, 147.

Islam, N.

Temperature and concentration dependence of fluidity of mixed hydrated melts of calcium- and nickel(II)-nitrates. N. Islam and A. Ali, 2028.

Isolani, P.C.

Micellar super-structure in magnetically aligned lyotropic liquid crystals studied by light scattering. P.C. Isolani, L.W. Reeves, and J.A. Vanin, 1108.

Itô. S

Total synthesis of barbatane sesquiterpenes: α - and β -barbatenes. gymnomitrol, and isogymnomitrol. M. Kodama, T. Kurihara, J. Sasaki, and S. Itô, 3343.

Ito, Y.

A new synthesis of spirovetivanes via the spiro acyloin intermediate. T. Ibuka, K. Hayashi, H. Minakata, Y. Ito, and Y. Inubushi, 1579.

Iwai, K.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Jaber, M.

Etude de l'ion HC₂O₄ en solution aqueuse par spectromètrie infrarouge et Raman. M. Jaber, F. Bertin et M.T. Forel, 876.

James, B.R.

Bis(ditertiaryphosphine) complexes of rhodium(1). Synthesis, spectroscopy, and activity for catalytic hydrogenation. B.R. James and D. Mahajan, 180.

Jamieson, J.W.S.

Thermochemical measurement of the ligand field splitting energies for hexaaquocopper(II) and hexaamminecopper(II) ions. M. Badri and J.W.S. Jamieson, 1926.

Janzen, A.F.

Synthesis of some alkoxyfluorophosphoranes and alkoxyfluorophosphines and characterization by ¹H, ¹⁹F, and ³¹P nuclear magnetic resonance spectroscopy. A.F. Janzen and L.J. Kruczynski, 1903.

Jarczewski, A.

Kinetic isotope effect and tunnelling in the proton transfer reaction between 2,4,6-trinitrotoluene and 1,1',3,3'-tetramethylguanidine in dimethylformamide solvent. A. Jarczewski, P. Pruszynski, and K.T. Leffek, 669.

Jarrell, H.C.

Synthesis related to the octodiose in apramycin. Part III. H.C. Jarrell and W.A. Szarek, 924.

Jay, M.

Dihydroxy-4',5 tétraméthoxy-2',3,7,8 flavone, et hydroxy-5 pentaméthoxy-2',3,4',7,8 flavone, deux nouveaux composés naturels isolés de *Notholaena affinis* (Ptéridophytes). M. Jay, J. Favre-Bonvin et E. Wollenweber, 1901.

Jeffries, D.

Solvent extraction of monothioacetylacetone chelates of zinc(II) and nickel(II). M. Leban, D. Jeffries, and J. Fresco, 3190.

Jeffs, P.W.

The biosynthesis of protoberberine and related isoquinoline alkaloids. H.L. Holland, P.W. Jeffs, T.M. Capps, and D.B. MacLean, 1588.

Jennings, H.J.

Structural elucidation of the capsular polysaccharide antigen of *Neisseria meningitidis* serogroup Z using ¹³C nuclear magnetic resonance. H.J. Jennings, K.-G. Rosell, and C.P. Kenny, 2902.

Jirkovsky, I.

Derivatives of fused 3-hydroxymethyl-pyran-4-ones as a mobile keto-allyl system. A. Philipp and I. Jirkovsky, 3292.

Johnson, J.P.

The preparation and characterisation of 1,1,2,2-tetramethyl-1,2-diacyloxyditin(IV) compounds. T. Birchall and J.P. Johnson, 160.

Johnson, M.A.

A correction in the published nuclear magnetic resonance spectra of *trans*-camphane-2,3-diols. M.A. Johnson and M.P. Fleming, 318.

Johnston, B.D.

Facile syntheses of the enantiomers of sulcatol. B.D. Johnston and K.N. Slessor, 233.

Jokinen, M.G.

Total synthesis of δ -(L- α -aminoadipyl)-L-cysteinyl-D-valine (ACV), a biosynthetic precursor of penicillins and cephalosporins. S. Wolfe and M.G. Jokinen, 1388.

Jones, C.H.W.

Erratum: A Mössbauer study of organotellurium compounds. Part III. Tellurium heterocycles and related compounds. N.S. Dance and C.H.W. Jones, 1005.

Jones, J.B.

Enzymes in organic synthesis. 14. Stereoselective horse liver alcohol dehydrogenase catalyzed oxidations of diols containing a prochiral centre and of related hemiacetals. J.B. Jones and K.P. Lok, 1025.

Iones I B

Effects of organic cosolvents on enzyme stereospecificity. The enantiomeric specificity of α -chymotrypsin is reduced by high organic solvent concentrations. J.B. Jones and M.M. Mehes, 2245.

Jones, J.B.

Enzymes in organic synthesis 17. Oxidoreductions of alcohols, aldehydes, and ketones using chemically modified horse liver alcohol dehydrogenase. J.B. Jones and D.R. Dodds, 2533.

Jones, T.R.B.

Fragmentation and rearrangement processes in the mass spectra of perfluoroaromatic compounds. Part XI. Heterocyclic derivatives of phosphorus and some transition metals. T.R.B. Jones, J.M. Miller, S.A. Gardner, and M.D. Rausch, 335.

Jordan, R.B.

Stereoselective interaction of a tridentate Schiff base complex of nickel(II) and amino acids. B. Erno and R.B. Jordan, 883.

Josephson, S.

Artificial carbohydrate antigens: synthesis of rhamnose disaccharides common to Shigella flexneri O-antigen determinants. D.R. Bundle and S. Josephson, 662.

Josephson, S.

Artificial carbohydrate antigens: the synthesis of the tetrasaccharide repeating unit of *Shigella flexneri* O antigen. S. Josephson and D.R. Bundle, 3073.

Jou, F.-Y.

Band resolution of optical spectra of solvated electrons in water, alcohols, and tetrahydrofuran. F.-Y. Jou and G.R. Freeman, 591.

Just. G

β-Lactams. V. The synthesis of D,L-4-hydroxymethylnocardicin A (17N), D,L-hydroxymethyl-N-phenylacetylnocardicinic acid (8N-f), and their α-epimers 17U and 8U-f. G. H. Hakimelahi and G. Just, 1932.

Just, G.

β-Lactams. VI. The synthesis of homocycloanalogues of nocardicin A. G.H. Hakimelahi and G. Just, 1939.

Just, G.

β-Lactams. VII. The synthesis of 3-vinyl and 3-isopropenyl 4-substituted azetidinones. R. Zamboni and G. Just, 1945.

Kaji, A.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Kakushima, M.

Stereocontrolled Diels-Alder reactions with a bifunctional dienophile. M. Kakushima and D.G. Scott, 1399.

Kakushima, M.

Stereoselectivity in Diels-Alder reactions. M. Kakushima, 2564.

Kakushima, M.

Total synthesis of (\pm) -5 β ,8 α -androst-9(11)-ene-3,17-dione. M. Kakushima, L. Allain, R.A. Dickinson, P.S. White, and Z. Valenta, 3354.

Kakushima, M.

Total synthesis of androstanes. M. Kakushima, J. Das, G.R. Reid, P.S. White, and Z. Valenta, 3356.

Kalra, B.L.

Pyrolysis of cyclopentane behind reflected shock waves. B.L. Kalra, S.A. Feinstein, and D.K. Lewis, 1324.

Kametani T

Studies on the syntheses of heterocyclic compounds. Part 782. Another total synthesis of (±)-tubulosine and (±)-deoxytubulosine. T. Kametani, Y. Suzuki, and M. Ihara, 1679.

Katavama, H.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Katz, M.

Excess properties of cumene + p-dioxane system at 30°C. H.N. Sólimo, S. del V. Alonso, and M. Katz, 678.

Kavadias, G.

Synthesis of a thioanalogue of neamine. The reaction of nitrosochloroadducts of glycals with thiols. G. Kavadias, R. Droghini, Y. Pépin, M. Ménard, and P. Lapointe. 1056.

Kavadias, G

9-Oxobenzomorphans. I. General syntheses of dihydrobenz[e]indolines as key intermediates. G. Kavadias, S. Velkof, and B. Belleau, 1852.

Kavadias, G.

9-Oxobenzomorphans. II. A versatile process for the synthesis of 9-oxo-6,7-benzomorphans. G. Kavadias, S. Velkof, and B. Belleau, 1861.

Kavadias, G.

9-Oxobenzomorphans. III. Synthesis of derivatives with various substituents at 2-,2'-, and 5-positions. G. Kavadias, S. Ve'kof, and B. Belleau, 1866.

Kavadias, G.

Aminocyclitols. III. Synthesis of diaminocyclohexanediols. G. Kavadias and R. Droghini, 1870.

lay, D.G

The chlorosulfonyl moiety as a leaving group: hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Kay, D.G.

The consequences of steric effects in the cleavage step of the sulfohaloform reaction. D.G. Kay, R.F. Langler, and J.E. Trenholm, 2185.

Kazmaier, P.M.

Stereochemical aspects of the Pummerer reaction. Regioselectivity as a criterion for the differentiation of ylide and E2 pathways in the product-determining step of the reactions of benzyl methyl halo- and oxysulfonium cations. S. Wolfe and P.M. Kazmaier, 2388.

Kazmaier, P.M.

Stereochemical aspects of the Pummerer reaction. Diastereotopic selectivity in the deprotonation of oxysulfonium cations. S. Wolfe and P.M. Kazmaier, 2397.

Kazmaier, P.M.

On the relationships between ¹⁸O-transfer, diastereotopic selectivity, and asymmetric induction in an intramolecular Pummerer reaction. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2404.

Kazmaier, P.M.

Cyclization of cysteinylglycine sulfoxides under Pummerer reaction conditions. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2412.

Kebarle, P.

Stabilities of complexes $(N_2)_nH^+$, $(CO)_nH^+$, and $(O_2)_nH^+$ for n=1 to 7 based on gas phase ion-equilibria measurements. K. Hiraoka, P.P.S. Saluja, and P. Kebarle, 2159.

Kebarle, P.

Gas phase ion equilibria: $RCO^+ + OH_2 \rightleftharpoons RC(OH)_2^+$; heats of formation of acylium ions RCO^+ and protonated acids $RC(OH)_2^+$; gas phase catalysis of proton shift $RC(OH)_2^+ \rightarrow RCO(OH_2^-)^+$. W.R. Davidson, S. Meza-Höjer, and P. Kebarle, 3205.

Keller, H.J.

The reaction products of N-alkylquinoxalines with 7,7,8,8-tetracyanoquinodimethane. H.J. Keller, D. Nöthe, and M. Werner, 1033.

Kelusky, E.C.

A 13C nmr study of metal ion binding to pyridoxine. J.S. Hartman and E.C. Kelusky, 2118.

Kenny, C.P.

Structural elucidation of the capsular polysaccharide antigen of *Neisseria meningitidis* serogroup Z using ¹³C nuclear magnetic resonance. H.J. Jennings, K.-G. Rosell, and C.P. Kenny, 2902.

Khalil, H.

Erratum: Phase-transfer catalyzed synthesis of activated cyclopropanes. J.M. McIntosh and H. Khalil, 2803.

Khan, M.

Structural studies of steric effects in phosphine complexes. Part VII. Synthesis, crystal and molecular structure of the chloroperchloratotri(o-tolyl)phosphinemercury(II) dimer. E.C. Alyea, S. Dias, G. Ferguson, and M. Khan, 2217.

Khan, S.A.

Structure of Ni[Ag(SCN)₂]₂ • 2diox and its derivatives. P.P. Singh, S.A. Khan, and J.P. Pandey, 3061.

Kheiri, F. M-N.

Syntheses and spectroscopic study of a new series of mixed-ligand complexes of As(III) and Sb(III) with dithio-ligands. F.M-N. Kheiri, C.A. Tsipis, C.L. Tsiamis, and G.E. Manoussakis, 767.

Khodair, A.I.

Photolysis of diarylcadmium compounds in benzene. A.M. Osman, A.I. Khodair, A.A. Abdel-Wahab, and A.M. El-Khawaga, 1923.

Khulbe, K.C.

Electron spin resonance of Mn²⁺ impurity ions in MoO₃-pumice catalyst. K.C. Khulbe, R.S. Mann, N. Tan, and A. Manoogian, 2779.

Kieffer, F.

A study of trapped electrons in LiCl/D₂O and other aqueous glasses at temperatures down to 2 K by radiolysis, pulse radiolysis, photolysis, and stimulated luminescence. N.V. Klassen, G.G. Teather, and F. Kieffer, 1488.

Kielland, S.L.

The synthesis of peptides related to a conserved sequence found in histone H-1 and H-5. Their ability to act as substrates and inhibitors of exogeneous protein kinases. S.L. Kielland, P. Mathiaparanam, L.A. Slotin, and R.E. Williams, 267.

Kiennemann, A.

Influence de différents catalyseurs à base d'élements de transition du groupe VIII sur la polymérisation du norbornène. C. Taniélian, A. Kiennemann et T. Osparpucu, 2022.

Kimmerle, F.M.

Adsorption of Et₄NBr at the mercury/electrolyte interface from water and heavy water solutions. F.M. Kimmerle and H. Ménard, 330.

King, J.F.

Organic sulfur mechanisms. 21. The reaction of arylsulfenes with sulfur dioxide. J.F. King and M. Aslam, 3278.

Kiryakov, H.G.

Fumaritine N-oxide, an alkaloid of Fumaria kralikii Jord. H.G. Kiryakov, D.W. Hughes, B.C. Nalliah, and D.B. MacLean, 53.

Kister, J

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie I. Synthèse et études physicochimiques. J.Kister, G. Assef, G. Mille et J. Metzger, 813.

Kister, J.

Synthèse et étude du réarrangement SR = NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie II. Réarrangement et réaction parasites. J. Kister, G. Assef, G. Mille et J. Metzger, 822.

Kitadani, M.

An investigation of the photodecomposition of *N*-bromosuccinimide; the generation and reactivity of succinimidyl radical. F.-L. Lu, Y.M.A. Naguib, M. Kitadani, and Y.L. Chow, 1967.

Kiyohara, O.

Ultrasonic velocities, compressibilities, and heat capacities of water + tetrahydrofuran mixtures at 298.15 K. O. Kiyohara, P.J. D'Arcy, and G.C. Benson, 1006.

Kiyohara, O.

Reply to comment: Ultrasonic velocities for deuterium oxide – water mixtures at 298.15 K. O. Kiyohara, C.J. Halpin, and G.C. Benson, 2335.

Klassen, N.V.

A study of trapped electrons in $LiCl/D_2O$ and other aqueous glasses at temperatures down to 2 K by radiolysis, photolysis, and stimulated luminescence. N.V. Klassen, G.G. Teather, and F. Kieffer, 1488.

Klinck, R.E.

¹³C nuclear magnetic resonance studies. 81. Conformational inversion barriers of some cis-decalins determined by ¹³C nuclear magnetic resonance. L.M. Browne, R.E. Klinck, and J.B. Stothers, 803.

Kloc, K.

Reactions at the nitrogen atoms in azafluorene systems. K. Kloc, J. Młochowski, and Z. Szulc, 1506.

Knaus, E.E.

Some reactions of 1,2-dihydropyridines with organic azides. Synthesis of diazabicylo[4.1.0]hept-4-enes, 1,2,5,6-tetrahydropyridylidene-2-cyan (sulfon, carbon) amides. T.A. Ondrus, E.E. Knaus, and C.S. Giam. 2342.

Knaus, E.E.

Some reactions of 10-substituted-10*H*-pyrido[3,2-*b*][1,4]benzothiazine-*n*-butylithium adducts with acyl and sulfonyl chlorides. F.M.Pasutto and E.E. Knaus, 2371.

Knaus, E.E.

Quaternization and sodium borohydride reduction of *N*-(4-pyridylcarbonylamino)-1,2,3,6-tetrahydropyridine. Synthesis of *N*-amino-1,2,3,6-tetrahydropyridines. K. Redda, L.A. Corleto, and E.E. Knaus, 2981.

Knop, O.

Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 404.

Knop, O.

Erratum: Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 2003.

Kochi I

Densities and kinematic viscosities of tetra-n-butylammonium iodide – nickel(II) chloride melts. N. Islam, A. Maroof, and I. Kochi, 147.

Koda, S

Erratum: Enrichment of nitrogen-15 by the direct laser photolysis of ammonia- d_3 in the \tilde{A} - \tilde{X} transition. P.A. Hackett, R.A. Back, and S. Koda 796

Kodama, M.

Total synthesis of barbatane sesquiterpenes: α - and β -barbatenes. gymnomitrol, and isogymnomitrol. M. Kodama, T. Kurihara, J. Sasaki, and S. Itô, 3343.

Kong, P.-C.

cis- and trans-Platinum compounds of substituted pyrimidines and their products from thiourea in Kurnakov's reaction. P.-C. Kong and F.D. Rochon, 526.

Kong, P.-C.

Halogen-bridged complexes of platinum(II) and their reactions with dimethylformamide. P.-C. Kong and F.D. Rochon, 682.

Koo, S.H

The biosynthesis of the Lythraceae alkaloids. I. The lysine-derived fragment. R.N. Gupta, P. Horsewood, S.H. Koo, and I.D. Spenser, 1606.

Kopecky, K.R.

Yields of excited states from thermolysis of some 1,2-dioxetanes. K.R. Kopecky and J.E. Filby, 283.

Korppi-Tommola, J.

Factor analysis as a complement to band resolution techniques. VI. Complex formation between pentachlorophenol-OD and acetone. J. Korppi-Tommola and H.F. Shurvell, 2707.

Kost, D

Molecular orbitals from group orbitals. IX. the problem of hybrid lone pairs. D. Kost, H.B. Schlegel, D.J. Mitchell, and S. Wolfe, 729.

Kotowycz, G.

The nature of the NADP complex with manganese(II) ions as studied by proton and phosphorus magnetic resonance. M.K. Green and G. Kotowycz, 2434.

Koyanagi, T.

Sensitized photolysis of bis(acetylacetonato)copper(II); general reaction pattern. G. Buono-Core, K. Iwai, Y.L. Chow, T. Koyanagi, A. Kaji, and J.-i. Hayami, 8.

Kresge, A.J.

The hydrolysis of coumarin diethyl acetal and the lactonization of coumarinic acid ethyl ester. The partitioning of tetrahedral intermediates generated from independent sources. R.A. McClelland, R. Somani, and A.J. Kresge, 2260.

Krikorian, D.

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Krichnaiah A

Excess volumes for binary liquid mixtures of butylamine with aromatic and aliphatic hydrocarbons. A. Krishnaiah, M. Sreenivasulu, and P.R. Naidu, 1915.

Krishnan, T.

On the use of dilution calorimetry in the study of hydrogen-bonding self-association reactions: benzoic acid in benzene. T. Krishnan, W.C. Duer, S. Goldman, and J.-L. Fortier, 530.

Kruczynski, L.J.

Synthesis of some alkoxyfluorophosphoranes and alkoxyfluorophosphines and characterization by ¹H, ¹⁹F, and ³¹P nuclear magnetic resonance spectroscopy. A.F. Janzen and L.J. Kruczynski, 1903.

Krupay, B.W.

The carbon monoxide/nitrous oxide reaction. Kinetics of catalysis on TiO₂ (anatase) and ZnO and activity correlations for the first-row transition metal oxides. B.W. Krupay and R.A. Ross, 320.

Erupay, B.W.

The catalytic reaction between carbon monoxide and nitrous oxide over chromium(III) oxide. B.W. Krupay and R.A. Ross, 718. Kruus, P.

Modelling of interactions in solutions: alkali halides in DMSO. P. Kruus and B.E. Poppe, 538.

Krygowski, T.M.

Substituent and solvent effects on Lewis acidity of *p*-substituted anilines: symmetry of interactions. G. Launay, B. Wojtkowiak, and T.M. Krygowski, 3065.

Kubela, R

Total synthesis of steroids. Part 1. Ring A aromatic compounds. Regiocontrol in diene additions with 6-methoxy-1-vinyl-3,4-dihydronaphthalene. J. Das, R. Kubela, G.A. MacAlpine, Ž. Stojanac, and Z. Valenta, 3308.

Kuksis, A.

Binuclear palladium complexes of 3,5-disubstituted pyrazoles. J. Powell and A. Kuksis, 2986,

Kundu, K.K.

Thermodynamics of transfer of hydrogen halides from water to glycerol-water mixtures and the structuredness of the solvents. I.N. Basumallick and K.K. Kundu, 961.

Kundu, K.K.

Ionization of ethylene glycol in isodielectric acetonitrile + ethylene glycol mixtures at 25°C. K. Bose and K.K. Kundu, 2470.

Kundu, K.K.

Free energies of transfer of some single ions from ethylene glycol to its isodielectric mixtures with acetonitrile at 25°C. K. Bose and K.K. Kundu, 2476.

Kurihara, T.

Total synthesis of barbatane sesquiterpenes: α - and β -barbatenes. gymnomitrol, and isogymnomitrol. M. Kodama, T. Kurihara, J. Sasaki, and S. Itô, 3343.

Kutney, J.P

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Kutney, J.P.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Kutney, J.P.

Total synthesis of indole and dihydroindole alkaloids. XVII. The total synthesis of catharine and vinamidine (catharinine). J.P. Kutney, J. Balsevich, and B.R. Worth, 1682.

Kutney, J.P.

The chemistry of thujone. II. Insect juvenile hormone analogues via acid dianion coupling. The β lactone route. J.P. Kutney, M.J. McGrath, R.N. Young, and B.R. Worth, 3145.

Labbé, C.

The reaction of ethyl 3,4,6-tri-O-acetyl-2-amino-2-deoxy-β-D-glucoside in acetone. B. Capon, C. Labbé, and D.S. Rycroft, 2978.

Labib, N.I.

On the interpretation of measured rotational and vibrational relaxation times. III. Failure of the mixture rule for non-dilute gases. H.O. Pritchard, N.I. Labib, and A. Lakshmi, 1115.

Lachance, P.

Alkanes with multiple asymmetric centers: synthesis, identification, and ¹³C nuclear magnetic resonance spectra. P. Lachance, S. Brownstein, and A.M. Eastman, 367.

Lacombe, L.

Effets des substituants dans les spectres de rmn de benzhydrols substitués en présence de Eu(dcm)₃. J. Capillon et L. Lacombe, 1446.

Lafrance, R.

Structure et réactivité. IV. Diastéréosélectivité de la réduction de cétones par le borohydrure de sodium. De l'influence de l'effet de champs de substituants polaires éloignés. J.-P. Aycard, R. Lafrance et B. Boyer, 2823.

Lai. H.K

A facile procedure for the introduction of a hydroxyethyl group. S,S'-Diethyl dithiomalonate as masked ethanol carbanion. H.-J. Liu and H.K. Lai, 2522.

Laidler, K.J.

Effect of temperature on the fluorescence quenching by *N*-bromosuccinamide of tryptophan residues in proteins. B.F. Peterman and K.J. Laidler, 1471.

Lakshmi, A

On the interpretation of measured rotational and vibrational relaxation times. III. Failure of the mixture rule for non-dilute gases. H.O. Pritchard, N.I. Labib, and A. Lakshmi, 1115.

Lakshmi, A.

The commutative property of strong-transition rate matrices. H.O. Pritchard and A. Lakshmi, 2793.

Lam, H.Y.P.

Claisen rearrangement of allyloxyanthraquinones. C.M. Wong, R. Singh, K. Singh, and H.Y.P. Lam, 3304.

l amate C

Relation entre structure et réactivité dans les réactions d'addition nucléophile sur les dérivés carbonylés: influence des interactions diaxiales-1,3 sur la réactivité de cyclanones et cyclanols stériquement encombrés. B. Boyer, G. Lamaty, C. Moreau et P. Geneste, 2848.

Lamb, N.

Synthesis and absolute configuration of nojigiku alcohol. N. Darby, N. Lamb, and T. Money, 742.

Langler, R.F.

The chlorosulfonyl moiety as a leaving group: hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Langler, R.F.

The consequences of steric effects in the cleavage step of the sulfohaloform reaction. D.G. Kay, R.F. Langler, and J.E. Trenholm, 2185.

Langler, R.F.

Sulfides as precursors for sulfonyl chloride synthesis. R.F. Langler, Z.A. Marini, and E.S. Spalding, 3193.

anglois, N.

Réarrangement du squelette de la catharanthine. IV. Nor-5 catharanthine et couplage avec la vindoline R.Z. Andriamialisoa, N. Langlois, Y. Langlois, P. Potier et P. Bladon, 2572.

anglois, Y

Réarrangement du squelette de la catharanthine. IV. Nor-5 catharanthine et couplage avec la vindoline. R.Z. Andriamialisoa, N. Langlois, Y. Langlois, P. Potier et P. Bladon, 2572.

Langstaff, E.J.

Transition state geometry in the scission and formation of cyclopentane and cyclohexane oxiranes. Use of the dilatometer in studying mixed reactions of different orders. J.W. Bovenkamp, E.J. Langstaff, R.Y. Moir, and R.A.B. Bannard, 2444.

Lapalme, R.

Thermal decomposition of ozonides. A complementary method to the Baeyer–Villiger oxidation of hindered ketones. R. Lapalme, H.-J. Borschberg, P. Soucy, and P. Deslongchamps, 3272.

Lapalme, R

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLashlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Lapointe, P.

Synthesis of a thioanalogue of neamine. The reaction of nitrosochloroadducts of glycals with thiols. G. Kavadias, R. Droghini, Y. Pépin, M. Ménard, and P. Lapointe, 1056.

Larcheveque, M.

Milieux hyperbasiques: Synthèse de cyclanones α -cyanées par cyclisation anionique d'amides-nitriles. M. Larcheveque et P. Mulot, 17.

Larcheveque, M.

Milieux hyperbasiques: Recherches sur les amides et lactames ω-halogénés. Essais de cyclisation. T. Cuvigny, P. Hullot, P. Mulot, M. Larcheveque et H. Normant, 1201.

Launay, G.

Substituent and solvent effects on Lewis acidity of p-substituted anilines: symmetry of interactions. G. Launay, B. Wojtkowiak, and T.M. Krygowski, 3065.

Laurie, S.H.

Analytical potentiometric and spectroscopic study of the equilibria in the aqueous nickel(II)-triethylenetetramine and nickel(II)-p-penicillamine systems. S.H. Laurie, D.H. Prime, and B. Sarkar, 1411.

Laville, C.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127. Leban, M.

Solvent extraction of monothioacetylacetone chelates of zinc(II) and nickel(II). M. Leban, D. Jeffries, and J. Fresco, 3190.

Leblanc, R.M.

Synthesis of long-chain coumarines and 2*H*-chromenes. Spectral and monolayer properties. H.P. Pommier, J. Baril, I. Gruda, and R.M. Leblanc, 1377.

Lee, C.C.

Hydrogenation during ligand exchange reactions between ferrocene and pyrene. C.C. Lee, K.J. Demchuk, and R.G. Sutherland, 933.

Lee, C.C.

Nucleophilic reactions of zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations. C.C. Lee, B.R. Steele, K.J. Demchuk, and R.G. Sutherland, 946.

Lee, C.C.

Rearrangement studies with ¹⁴C. XLIII. The acetolysis of trianisyl[2-¹⁴C]vinyl bromide. C.C. Lee, U. Weber, and C.A. Obafemi, 1384.

Lee, C.L.

Kinetics and mechanisms of some reactions of aqueous sodium bromite. C.L. Lee and M.W. Lister, 1524.

I NIII

The synthesis and characterisation of the trifluoromethylsulfates of silver(II) and gold(III). P.C. Leung, K.C. Lee, and F. Aubke, 326.

Lee, K.C.

Fluorosulfates of palladium. Part 2. The hexakis(fluorosulfato)palladate(IV) ion and palladium(II) hexakis(fluorosulfato)metallates(IV). K.C. Lee and F. Aubke, 2058.

Lee, S.P.

Metabolites of bird's nest fungi. Part 11. Diterpenoid metabolites of Cyathus earlei Lloyd. W.A. Ayer and S.P. Lee, 3332.

Meta Lee, S.P.

Metabolites of bird's nest fungi. Part 12. Studies on the biosynthesis of the cyathins. W.A. Ayer, S.P. Lee, and T.T. Nakashima, 3338.

Lee, T.W.S.

Free energy relationship of the equilibrium ionization constants of disulfonyl carbon acids in 80% (w/w) dimethyl sulfoxide – water solvent at 25°C. T.W.S. Lee and K.-P. Ang, 853.

Lee, W.

The absorption of tri-n-butylphosphate at the n-dodecane-water interface. N.H. Sagert, W. Lee, and M.J. Quinn, 1218.

Leffek, K.T.

Kinetic isotope effect and tunnelling in the proton transfer reaction between 2,4,6-trinitrotoluene and 1,1',3,3'-tetramethylguanidine in dimethylformamide solvent. A. Jarczewski, P. Pruszynski, and K.T. Leffek, 669.

Leigh, W.J.

Photochemical and thermal rearrangements of some 3H-pyrazoles. W.J. Leigh and D.R. Arnold, 1186.

Lemieux, R.U.

The azidonitration of tri-O-acetyl-D-galactal. R.U. Lemieux and R.M. Ratcliffe, 1244.

e Narvor, A

Etude par spectrométrie infrarouge de l'action de solvants aprotiques sur l'association ester-eau et ester-Ba²⁺. Discussion du rôle catalytique du solvant et de l'ion Ba²⁺ dans l'hydrolyse alcaline du propionate de méthyle. A. Le Narvor et P. Saumagne, 400.

Leonard, D.R.A.

Ipso nitration XXI. Nitration of *p*-tolylalkanoic acids and derivatives: spiro adducts. A. Fischer, D.R.A. Leonard, and R. Röderer, 2527.

Leong, T.S.

Correlation of the photoelectron and electronic spectra of thiochromones and thiochromanones with their electrochemical data. R.O. Loutfy, I.W.J. Still, M. Thompson, and T.S. Leong, 638.

Leture, D.M.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Lenchs M

Polarizable acid-acid and acid-water hydrogen bonds with H₃PO₃, H₃PO₄, and H₃AsO₄. M. Leuchs and G. Zundel, 487.

Leung, P.C.

The synthesis and characterisation of the trifluoromethylsulfates of silver(II) and gold(III). P.C. Leung, K.C. Lee, and F. Aubke, 326.

Lewis, D.K.

Pyrolysis of cyclopentane behind reflected shock waves. B.L. Kalra, S.A. Feinstein, and D.K. Lewis, 1324.

Lewis, G.J.

Effect of pressure on the Raman spectrum of s-trioxane I and II. M. Nakahara, P.T.T. Wong, G.J. Lewis, and E. Whalley, 2869.

Lewis, N.A.

Substituent effects in electron transfer reactions. II. The chromium(II) reduction of 2-acetylbutane-1,3-dionatobis(ethylenediamine)cobalt(III) and 3-acetylpentane-2,4-dionatobis(ethylenediamine)cobalt(III). R.J. Balahura and N.A. Lewis, 1765.

Liao, C.-C.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Lim, G

Nuclear analogs of β -lactam antibiotics. X. Synthesis of 2-substituted desthiocephalosporins. T.W. Doyle, T.T. Conway, M. Casey, and G. Lim, 222.

Lim, G

Nuclear analogs of β -lactam antibiotics. XI. Synthesis of 3-methyl-7- β -(phenoxyacetamido)- Δ 3-desthiocephem-4-carboxylic acid. T.W. Doyle, T.T. Conway, G. Lim, and B.-Y. Luh, 227.

Lister, M.W.

Kinetics and mechanisms of some reactions of aqueous sodium bromite. C.L. Lee and M.W. Lister, 1524.

Liu, H.-J.

Violation of the 'para' rule in the boron trifluoride catalyzed cycloaddition of 4,4-dimethyl-2,5-cyclohexadien-1-one to isoprene. Total synthesis of ionene. H.-J. Liu and E.N.C. Browne, 377.

Liu, H.-J.

A total synthesis of (-)-khusimone. H.-J. Liu and W. H. Chan, 708.

Liu, H.-J.

A facile procedure for the introduction of a hydroxyethyl group. S,S'-Diethyl dithiomalonate as masked ethanol carbanion. H.-J. Liu and H.K. Lai, 2522.

Liu, M.T.H

Thermal decomposition of diazirines in the presence of *m*-chloroperoxybenzoic acid. A method to determine the partitioning of reaction pathways. M.T.H. Liu and I. Yamamoto, 1299.

I ... MTH

Pyrolysis of trifluoroacetaldehyde, initiated by di-tertiary-butyl peroxide decomposition. L.F. Loucks, M.T.H. Liu, and D.G. Hooper, 2201.

Llabrès, G.

Etude par résonance magnétique nucléaire de composés organiques contenant des chalcogènes. II. L'éther de diphényle et ses analogues soufré, sélénié et telluré. G. Llabrès, M. Baiwir, L. Christiaens et J.-L. Piette, 2967.

Llinares, J

Structure et réactivité des benzoxazoles: étude par résonance magnétique nucléaire du carbone-13. J. Llinares, J.-P. Galy, R. Faure, E.-J. Vincent et J. Elguero, 937.

Lock, C.J.L.

Studies of β -diketone complexes of rhenium. IX. The preparation and characterization of salts of the *trans*-dihalobis (pentane-2.4-dionato)-rhenate(III) anion and an improved preparation of tris(pentane-2.4-dionato)-rhenium(III). C.J.L. Lock, C.N. Murphy, and M.L. Turner, 1252.

Lockhart, R.W.

Generation of aminyl and aminium radicals by photolysis of *N*-nitrodialkylamines in solution. Y.L. Chow, H. Richard, R.W. Snyder, and R.W. Lockhart, 2936.

Lok. K.P.

Enzymes in organic synthesis. 14. Stereoselective horse liver alcohol dehydrogenase catalyzed oxidations of diols containing a prochiral centre and of related hemiacetals. J.B. Jones and K.P. Lok, 1025.

Loock, B.

Five-coordinate iron(II) porphyrins derived from $meso-\alpha$, β , γ , δ tetraphenylporphin: synthesis, characterization, and coordinating properties. M. Momenteau, B. Loock, E. Bisagni, and M. Rougee, 1804.

Lopata, V.J.

Magnetic field effect on the fluorescence from γ-irradiated solutions of perfluorocarbons. R.S. Dixon and V.J. Lopata, 3023.

Lossing, F.P.

The reactivity of [C₃H₃+] ions; a thermochemical study. J.L. Holmes and F.P. Lossing, 249.

Loucks, L.F.

Pyrolysis of trifluoroacetaldehyde, initiated by di-tertiary-butyl peroxide decomposition. L.F. Loucks, M.T.H. Liu, and D.G. Hooper, 2201.

Loutfy, R.O.

The interaction between the excited triplet state of ketones and olefins: the role of triplet exciplexes. R.O. Loutfy, S.D. Dogra, and R.W. Yip, 342.

Loutfy, R.O.

Correlation of the photoelectron and electronic spectra of thiochromones and thiochromanones with their electrochemical data. R.O. Loutfy, I.W.J. Still, M. Thompson, and T.S. Leong, 638.

Loutfy, R.O.

Analysis of trace metal impurities in phthalocyanine pigments. R.O. Loutfy and C.-K. Hsiao, 2546.

Lown, J.W.

Synthesis of potential DNA bisintercalative agents of the phenanthridinium class. J.W. Lown, B.C. Gunn, K.C. Majumdar, and E. McGoran, 2305.

Lu, F.-L

An investigation of the photodecomposition of N-bromosuccinimide; the generation and reactivity of succinimidyl radical. F.-L. Lu, Y.M.A. Naguib, M. Kitadani, and Y.L. Chow, 1967.

Luh, B.-Y.

Nuclear analogs of β -lactam antibiotics. XI. Synthesis of 3-methyl-7- β -(phenoxyacetamido)- Δ ³-desthiocephem-4-carboxylic acid. T.W. Doyle, T.T. Conway, G. Lim, and B.-Y. Luh, 227.

Luh, B.-Y.

Nuclear analogs of β-lactam antibiotics. XII. 2-Oxodesthiocephalosporins. A. Martel, T.W. Doyle, and B.-Y. Luh, 614.

Lynch, B.M

Synthesis, reactions, and nuclear magnetic resonance spectroscopy of 4-methyl-6*H*-pyrazolo(3,4-b)azepin-7-ones. S.C. Sharma and B.M. Lynch, 3034.

MacAlpine, G.A.

Total synthesis of steroids. Part 1. Ring A aromatic compounds. Regiocontrol in diene additions with 6-methoxy-1-vinyl-3,4-dihydronaphthalene. J. Das, R. Kubela, G.A. MacAlpine, Z. Stojanac, and Z. Valenta, 3308.

Maciejewski, M.

Cyanoethylation of the salts of cyanoguanidine in aprotic solvents. P. Aleksandrowicz, M. Bukowska, M. Maciejewski, and J. Prejzner, 2593.

Mackay, D.

The formation and interconversion of oxazines and dioxazines from the reaction of nitrosocarbonyl compounds with cyclopentadienes. L.H. Dao, J.M. Dust, D. Mackay, and K.N. Watson, 1712.

Mackay, D.

Reactions of 4-phenyl-3*H*-1,2,4-triazole-3,5(4*H*)-dione with alcohols and amines. L.H. Dao and D. Mackay, 2727.

Mackay, G.I.

Gas-phase proton-transfer reactions of the hydronium ion at 298 K. G.I. Mackay, S.D. Tanner, A.C. Hopkinson, and D.K. Bohme, 1518.

Mackay, G.I.

A room-temperature study of the kinetics of protonation of formaldehyde. S.D. Tanner, G.I. Mackay, and D.K. Bohme, 2350.

Mackay, G.I.

Acid catalysis in the gas phase: dissociative proton transfer to formate and acetate esters. A.C. Hopkinson, G.I. Mackay, and D.K. Bohme, 2996.

MacKenzie, S.L.

Reaction of alanine-3-sulfinic acid with 2-mercaptoethanol. A.J. Finlayson, S.L. MacKenzie, and J.W. Finley, 2073.

MacLachlan, F.N.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

MacLean, D.B.

Fumaritine N-oxide, an alkaloid of Fumaria kralikii Jord. H.G. Kiryakov, D.W. Hughes, B.C. Nalliah, and D.B. MacLean, 53.

MacLean, D.B.

A versatile synthesis of spirobenzylisoquinoline and phthalideisoquinoline alkaloids. Conversion of a phthalideisoquinoline to spirobenzylisoquinolines. B.C. Nalliah, D.B. MacLean, H.L. Holland, and R. Rodrigo, 1545.

MacLean, D.B.

The biosynthesis of protoberberine and related isoquinoline alkaloids. H.L. Holland, P.W. Jeffs, T.M. Capps, and D.B. MacLean, 1588.

MacLean, D.B.

The total synthesis of (±)-luciduline. J. Szychowski and D.B. MacLean, 1631.

MacLean, G.

The formation and structure of a 1,5-disubstituted S_4N_4 ring. $(Ph_3P=N)_2S_4N_4$, from the reaction of triphenylphosphine with tetrasulphur tetranitride. J. Bojes, T. Chivers, G. MacLean, R.T. Oakley, and A.W. Cordes, 3171.

Maffrand, J.-P

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leture, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Mahajan, D.

Bis(ditertiaryphosphine) complexes of rhodium(1). Synthesis, spectroscopy, and activity for catalytic hydrogenation. B.R. James and D. Mahajan, 180.

Mahajan, J.R.

Barriers to rotation about the N—CO bond in N-vinyl amides; a new two-site approximation method. R.R. Fraser, J.-L.A. Roustan, and J.R. Mahajan, 2239.

Maiid, A

The ¹³C chemical shifts of various methylgermanium derivatives. J.E. Drake, B.M. Glavinčevski, R.E. Humphries, and A. Majid, 1426.

Majid, A.

A ¹H and ¹³C nuclear magnetic resonance study of silicon and germanium chalcogenide derivatives. J.E. Drake, B.M. Glavinčevski, R. Humphries, and A. Majid, 3253.

Majumdar, K.C.

Synthesis of potential DNA bisintercalative agents of the phenanthridinium class. J.W. Lown, B.C. Gunn, K.C. Majumdar, and E. McGoran, 2305.

Makhija, R.C.

Structure of a new crystalline modification of dithiocyanato(triphenylphosphine)mercury(II). R.C. Makhija, R.Rivest, and A.L. Beauchamp, 2555.

Jann, R.S.

Electron spin resonance of Mn²⁺ impurity ions in MoO₃-pumice catalyst. K.C. Khulbe, R.S. Mann, N. Tan, and A. Manoogian, 2779.

Manoogian, A.

Electron spin resonance of Mn²⁺ impurity ions in MoO₃-pumice catalyst. K.C. Khulbe, R.S. Mann, N. Tan, and A. Manoogian, 2779.

Manoussakis, G.E.

Syntheses and spectroscopic study of a new series of mixed-ligand complexes of As(III) and Sb(III) with dithio-ligands. F.M-N. Kheiri, C.A. Tsipis, C.L. Tsiamis, and G.E. Manoussakis. 767.

Mantsch, H.H.

The self-association of naturally occurring purine nucleoside 5'-monophosphates in aqueous solution. K.J. Neurohr and H.H. Mantsch, 1986.

Mantsch, H.H.

Specific binding of phenylalanine and tryptophan to β -nicotinamide adenine dinucleotide. K.J. Neurohr and H.H. Mantsch, 2297.

Mantsch, H.H.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Aarat, K

Spin-spin coupling constants between side-chain and ring fluorine nuclei in some benzotrifluoride, benzal fluoride, and benzyl fluoride derivatives: coupling mechanisms. T. Schaefer, W. Niemczura, C.-M. Wong, and K. Marat, 807.

Marazza, F.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

March, R.E.

The application of resonant ion ejection to quadrupole ion storage mass spectrometry: a study of ion/molecule reactions in the QUISTOR. M.A. Armitage, J.E. Fulford, Duong-Nhu-Hoa, R.J. Hughes, and R.E. March, 2108.

Marchand, B.

Dichotomous reactions of thioketones with tetracarbonylferrate. H. Alper, B. Marchand, and M. Tanaka, 598.

Marcinko, R.W.

Application of photoelectron spectroscopy to substituent effects. Conformational analysis of some flexible allylic ethers and alcohols. R.S. Brown, R.W. Marcinko, and A. Tse, 1890.

Mareci, T.H.

¹³C and ¹H nuclear magnetic resonance spectroscopy of C-19 and 6β-methyl substituted steroids: long-range shift effects in conformational analysis. K.N. Scott and T.H. Mareci, 27.

Marini, Z.A.

Sulfides as precursors for sulfonyl chloride synthesis. R.F. Langler, Z.A. Marini, and E.S. Spalding, 3193.

Marini-Bettolo, R.

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Maroof, A.

Densities and kinematic viscosities of tetra-*n*-butylammonium iodide – nickel(II) chloride melts. N. Islam, A. Maroof, and I. Kochi, 147.

Martel, A.

Nuclear analogs of β-lactam antibiotics. XII. 2-Oxodesthiocephalosporins. A. Martel, T.W. Doyle, and B.-Y. Luh, 614.

Martell, A.E.

Hydrolysis and ammonolysis of EDTA in aqueous solution. R.J. Motekaitis, D. Hayes, A.E. Martell, and W.W. Frenier, 1018.

Martin, F.V.

The kinetics and equilibrium of the hydration of phthalaldehyde. R.S. McDonald and E.V. Martin, 506.

Martin, K.A.

Absorption and magnetic circular dichroism spectra of metal-free phthalocyanine in ultraviolet-transparent solvents. K.A. Martin and M.J. Stillman, 1111.

Martineau, B.

Gas phase observation of the first overtone of the H—F stretching fundamental in hydrogen bonded complexes. J.W. Bevan, B. Martineau, and C. Sandorfy, 134.

Martino, R

Anisotropic motion in 1-substituted adamantanes from ¹³Cmr relaxation time data. H. Beierbeck, R. Martino, and J.K. Saunders, 1224.

Martino, R.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Matheson, R.A.F.

An unusual carbomethoxyl migration from nitrogen to carbon. Formation of a 2*H*-pyrrole from AlCl₃-promoted reaction of 1-carbomethoxy-2,5-dimethylpyrrole with dimethyl acetylenedicarboxylate. R.A.F. Matheson, A.W. McCulloch, A.G. McInnes, and D.G. Smith, 2743.

Mathey, F

Passage des phosphorinènes aux hexadiényl-3,5-phosphines: un nouveau type de coordinat P(III)-diène pour les métaux de transition. F. Mathey et C. Santini, 723.

Mathiaparanam, P.

The synthesis of peptides related to a conserved sequence found in histone H-1 and H-5. Their ability to act as substrates and inhibitors of exogeneous protein kinases. S.L. Kielland, P. Mathiaparanam, L.A. Slotin, and R.E. Williams, 267.

Matough, F.S

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Maujean, A.

Interaction entre les réactifs lanthanidiques et les bases de Lewis: Application à l'analyse conformationelle d'alcools cyclohexaniques. J. Bouquant, A. Maujean et J. Chuche, 1080.

McBryde, W.A.E.

Ethylenediamine–N,N'-diacetic acid complexes with divalent manganese, zinc, cadmium, and lead: a thermodynamic study. R.J. Gualtieri, W.A.E. McBryde, and H.K.J. Powell, 113.

McBryde, W.A.E.

Reactions of triethylenetetramine with protons and bivalent zinc, cadmium, and lead in aqueous solution and aqueous dioxane (50% v/v). W.A.E. McBryde and H.K.J. Powell, 1785.

McClelland, R.A.

Carbonyl oxygen exchange of glycol monoesters. Rate and equilibrium constants for the formation of a tetrahedral intermediate. R.A. McClelland, M. Ahmad, J. Bohonek, and S. Gedge, 1531.

McClelland, R.A.

A nuclear magnetic resonance study of pyridinium and p-anisidinium carboxylate salts. J.A. Gowland and R.A. McClelland, 2140.

McClelland, R.A.

The hydrolysis of coumarin diethyl acetal and the lactonization of coumarinic acid ethyl ester. The partitioning of tetrahedral intermediates generated from independent sources. R.A. McClelland, R. Somani, and A.J. Kresge, 2260.

McClelland, R.A.

Hydrogen exchange and isomerization in *ortho* substituted benzamides. On the question of free rotation in an *N*-protonated amide. R.A. McClelland and W.F. Reynolds, 2896.

McCulloch, A.W.

An unusual carbomethoxyl migration from nitrogen to carbon. Formation of a 2*H*-pyrrole from AlCl₃-promoted reaction of 1-carbomethoxy-2,5-dimethylpyrrole with dimethyl acetylenedicarboxylate. R.A.F. Matheson, A.W. McCulloch, A.G. McInnes, and D.G. Smith, 2743.

McDonald, R.S.

The kinetics and equilibrium of the hydration of phthalaldehyde. R.S. McDonald and E.V. Martin, 506.

McDowell, C.A.

The photoelectron spectra of the methylbromamines and unsubstituted bromamines. D. Colbourne, D.C. Frost, C.A. McDowell, and N.P.C. Westwood, 1279.

McGillivray, D.L.

The kinetics and mechanisms of the gas phase pyrolyses of exo-2-norbornyl chloride and cyclopentyl chloride. J.L. Holmes, D.L. McGillivray, and D. Yuan, 2621.

McGoran, E.

Synthesis of potential DNA bisintercalative agents of the phenanthridinium class. J.W. Lown, B.C. Gunn, K.C. Majumdar, and E. McGoran, 2305.

McGowan, J.C.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

McGrath, M.J.

The chemistry of thujone. II. Insect juvenile hormone analogues via acid dianion coupling. The β lactone route. J.P. Kutney, M.J. McGrath, R.N. Young, and B.R. Worth, 3145.

McInnes, A.G.

Hydrogen-deuterium exchange in tetrahydroborate salts. I.A. Oxton, A.G. McInnes, and J.A. Walter, 503.

McInnes, A.G.

An unusual carbomethoxyl migration from nitrogen to carbon. Formation of a 2H-pyrrole from AlCl₃-promoted reaction of 1-carbomethoxy-2,5-dimethylpyrrole with dimethyl acetylenedicarboxylate. R.A.F. Matheson, A.W. McCulloch, A.G. McInnes, and D.G. Smith, 2743.

McInnes, A.G.

The biosynthesis of caerulomycin A in Streptomyces caeruleus. Incorporation of ¹⁴C- and ¹³C-labeled precursors and analyses of labeling patterns by ¹³C nmr. A.G. McInnes, D.G. Smith, J.A. Walter, L.C. Vining, and J.L.C. Wright, 3200.

McIntosh, J.M.

Carbon-13 spectra of 2,5-dihydrothiophenes and their 1,1-dioxides. J.M. McIntosh, 131.

McIntosh, J.M.

Regiospecific preparation of 10-allyl-1-ketoquinolizidine and an unexpected disproportionation during its Wolff-Kischner reduction. J.M. McIntosh, 2114.

Erratum: Phase-transfer catalyzed synthesis of activated cyclopropanes. J.M. McIntosh and H. Khalil, 2803.

The preparation and properties of some thioacylmethylenethiazolines and isothiazolines. D.M. McKinnon, M.E. Hassan, and M.S. Chauhan, 207.

McLaughlin, D.R.

The effect of tetra-n-butylammonium bromide on the proton magnetic resonance of 1-X-2.4-dinitrobenzenes. D.R. McLaughlin and J.D. Reinheimer, 835.

McLean, S.

Total synthesis of spirobenzylisoquinoline alkaloids. Part V. Generalized approach to the complete set of alkaloids. D. Dime and S. McLean, 1569.

McMahon, T.B.

An ion cyclotron resonance study of competitive solvation of gas phase anions. R.L. Clair and T.B. McMahon, 473.

McMahon, T.B.

An ab initio and ion cyclotron resonance study of the protonation of borazine. C.E. Doiron, F. Grein, T.B. McMahon, and K. Vasudevan, 1751.

McMullan, E.E.

Pyrones. IV. Phacidin, a fungal growth inhibitor from Potebniamyces balsamicola Smerlis var. boycei Funk. G.A. Poulton, T.D. Cyr, and E.E. McMullan, 1451.

McMullan, J.F.

Subtilisin Carlsberg, a chiral catalyst: an organic co-solvent. J.F. Beck and J.F. McMullan, 2516.

Mehes, M.M.

Effects of organic cosolvents on enzyme stereospecificity. The enantiomeric specificity of α -chymotrypsin is reduced by high organic solvent concentrations. J.B. Jones and M.M. Mehes, 2245.

Mehrotra, K.N.

Oxidation products of N-substituted imines and ketone hydrazones in the presence of sodium in ether: new and convenient syntheses of diimines and substituted aryl diazomethanes. B.P. Giri, G. Prasad, and K.N. Mehrotra, 1157.

The molecular and crystal structure of [Pt(diethylenetriamine)(guanosine)](ClO₄)₂. R. Melanson and F.D. Rochon, 57. Ménard, H.

Adsorption of Et₄NBr at the mercury/electrolyte interface from water and heavy water solutions. F.M. Kimmerle and H. Ménard, 330.

Ménard, H.

Anomalie de formation d'une goutte de mercure à une électrode polarographique. H. Ménard et J. Dubois, 565.

Synthesis of a thioanalogue of neamine. The reaction of nitrosochloroadducts of glycals with thiols. G. Kavadias, R. Droghini, Y. Pépin, M. Ménard, and P. Lapointe, 1056.

Menon, B.C.

Spectrophotometric study of ion pairing in diphenylmethyl alkali metal salts. E. Buncel, B.C. Menon, and J.P. Colpa, 999.

Merlin, A.

Photochemical α-cleavage and hydrogen abstraction in deoxybenzoin: a laser spectroscopy investigation. J.-P. Fouassier and A. Merlin, 2812.

Merlin, J.C.

Thermodynamic properties of binary mixtures containing thiaalkanes. II. Thermal pressure coefficients of pure compounds at 298.15 K. R. Philippe, Z. Ferhat-Hamida, and J.C. Merlin, 3135.

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie I. Synthèse et études physicochimiques. J. Kister, G. Assef, G. Mille et J. Metzger, 813.

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3: alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie II. Réarrangement et réaction parasites. J. Kister, G. Assef, G. Mille et J. Metzger, 822.

Gas phase ion equilibria: RCO+ + OH₂ = RC(OH)₂+; heats of formation of acylium ions RCO+ and protonated acids $RC(OH)_2$; gas phase catalysis of proton shift $RC(OH)_2$ $\rightarrow RCO(OH_2)$ $\rightarrow RCO(OH_2)$. W.R. Davidson, S. Meza-Höjer, and P. Kebarle, 3205.

Middlemiss, N.E.

The structure and fragmentation of protonated carboxylic acids in the gas phase. N.E. Middlemiss and A.G.Harrison, 2827.

Mielniczuk, Z.M.

A gas chromatographic detector based on the quenching of luminescence from a P₄/O₂ cold flame. W.A. Aue and Z.M. Mielniczuk, 1238.

Milanova, E.

Vapour pressure and calorimetric data for the solution of sulfur dioxide in aprotic solvents. R.L. Benoit and E. Milanova, 1319. Mille, G.

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3; alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie I. Synthèse et études physicochimiques. J. Kister, G. Assef, G. Mille et J. Metzger, 813.

Synthèse et étude du réarrangement SR ≒ NR des diazoles-1,3; alkyl-1 alkylthio-2 (allylthio, arylthio, cycloalkylthio) imidazoles. Partie II. Réarrangement et réaction parasites. J. Kister, G. Assef, G. Mille et J. Metzger, 822.

Excited state properties of nitrobenzene derivatives. G. Buemi, S. Millefiori, F. Zuccarello, and A. Millefiori, 2167.

Millefiori, S.

Excited state properties of nitrobenzene derivatives. G. Buemi, S. Millefiori, F. Zuccarello, and A. Millefiori, 2167.

C-Stannane derivatives of carbohydrates. L.D. Hall, P.R. Steiner, and D.C. Miller, 38.

Miller, J.M.

Fragmentation and rearrangement processes in the mass spectra of perfluoroaromatic compounds. Part XI. Heterocyclic derivatives of phosphorus and some transition metals. T.R.B. Jones, J.M. Miller, S.A. Gardner, and M.D. Rausch, 335.

Miller, J.M.

Nucleophilic substitution in tris(pentafluorophenyl)phosphine. H.R. Hanna and J.M. Miller, 1011.

Miller, J.M.

Fluoride ion promoted synthesis of alkyl phenylethers. J.M. Miller, K.H. So, and J.H. Clark, 1887.

Miller, J.M.

Hydrogen bond assisted reactions: C- and O-alkylations, sulphenylations, and Michael additions aided by polymer immobilized fluoride ion. J.M. Miller, S.R. Cater, K.-H. So, and J.H. Clark, 2629.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Milne, C.R.

Phosphorus-31 nuclear magnetic resonance spectra of methylplatinum(II) and methylpalladium(II) cations containing 4-substituted pyridine ligands. H.C. Clark and C.R. Milne, 958.

Minakata, H.

A new synthesis of spirovetivanes via the spiro acyloin intermediate. T. Ibuka, K. Hayashi, H. Minakata, Y. Ito, and Y. Inubushi, 1579.

Minamikawa, J.-i.

Selective O-demethylation of isoquinoline alkaloids: Preparation of hydrocotarnoline from hydrocotarnine and conversion of S-(+)-laureline into S-(+)-roemerine via S-(+)-mecambroline. J.-i. Minamikawa and A. Brossi, 1720.

Minghetti, G.

Metal derivatives of azoles. Part V. Platinum(II) and palladium(II) pyrazolates as a new type of neutral bidentate ligands. A.L. Bandini, G. Banditelli, G. Minghetti, and F. Bonati, 3237.

Mitchell, D.J.

Molecular orbitals from group orbitals. IX. the problem of hybrid lone pairs. D. Kost, H.B. Schlegel, D.J. Mitchell, and S. Wolfe, 729

Mitchell, K.A.R.

Use of X aSW calculations for parametrising the CNDO method for the heavier elements. II. Tests for the elements aluminium to sulphur. J.D. Head and K.A.R. Mitchell, 1826.

Mitchell, R.H.

The crystal and molecular structure of syn-2,11-dithia[3,3]metacyclophane. W. Anker, G.W. Bushnell, and R.H. Mitchell, 3080.

Miura, T.

On the syntheses and the optical properties of optically active 2-pyrazoline compounds. M. Mukai, T. Miura, M. Nanbu, T. Yoneda, and Y. Shindo, 360.

Młochowski, J.

Reactions at the nitrogen atoms in azafluorene systems. K. Kloc, J. Młochowski, and Z. Szulc, 1506.

Mody, N.V.

¹³C nuclear magnetic resonance spectra of some C₁₉-diterpenoid alkaloids and their derivatives. S.W. Pelletier, N.V. Mody, and R.S. Sawhney, 1652.

Mohanty, R.K.

Kinetics and mechanism of decarboxylation of some pyridinecarboxylic acids in aqueous solution. III. 3-Hydroxy- and 3-aminopyridine-2-carboxylic acids. G.E. Dunn, H.F. Thimm, and R.K. Mohanty, 1098.

Moir, R.Y

 σ complexes as biophysical and biochemical probes. Part III. Competitive demethylation and σ -complex formation in reaction of 4,6-dinitro-7-methoxybenzofuroxan with nucleophiles. E. Buncel, N. Chuaqui-Offermanns, R.Y. Moir, and A.R. Norris, 494.

Moir, R.Y.

Transition state geometry in the scission and formation of cyclopentane and cyclohexane oxiranes. Use of the dilatometer in studying mixed reactions of different orders. J.W. Bovenkamp, E.J. Langstaff, R.Y. Moir, and R.A.B. Bannard, 2444.

Momenteau, M.

Five-coordinate iron(II) porphyrins derived from $meso-\alpha$, β , γ , δ tetraphenylporphin: synthesis, characterization, and coordinating properties. M. Momenteau, B. Loock, E. Bisagni, and M. Rougee, 1804.

Money, T.

Chemical and microbiological remote functionalisation of (+)- and (-)-bornyl acetate. M.S. Allen, N. Darby, P. Salisbury, E.R. Sigurdson, and T. Money, 733.

Money, T.

Synthesis and absolute configuration of nojigiku alcohol. N. Darby, N. Lamb, and T. Money, 742.

Mongeot, H

Etude chimique et spectroscopique du système B(SCH₃)₃-B(NCS)₃. H.-R. Atchekzai, H. Mongeot, J. Dazord et J.-P. Tuchagues, 1122.

Monnier, M.

Structure et réactivité. III. Evolutions stéréochimiques et chemins réactionnels des radicaux cyclohexyles substitués en 2 et cyclohexényles substitués en 3 (réaction de Kochi). M. Monnier et J.-P. Aycard, 1257.

Moreau, C.

Relation entre structure et réactivité dans les réactions d'addition nucléophile sur les dérivés carbonylés: influence des interactions diaxiales-1,3 sur la réactivité de cyclanones et cyclanols stériquement encombrés. B. Boyer, G. Lamaty, C. Moreau et P. Geneste, 2848.

Moreau, C.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Morel, J.-P.

Volumes, expansivities, enthalpies of solution, and conductivities of K+ and of Bu₄N+ 1-adamantylcarboxylates in H₂O and D₂O. N. Morel-Desrosiers and J.-P. Morel, 673.

Morel, J.-P.

Coefficients B de viscosité dans les systèmes ternaires aqueux. III. Halogénures alcalins – alcool tert-butylique – eau à 25°C. M. Palma et J.-P. Morel, 3247.

Morel-Desrosiers, N.

Volumes, expansivities, enthalpies of solution, and conductivities of K^+ and of Bu_4N^+ 1-adamantylcarboxylates in H_2O and D_2O . N. Morel-Desrosiers and J.-P. Morel, 673.

Morénas, M.

Thermodynamic and physical behaviour of some water + polyethyleneglycol mixtures. II. Dielectric properties. G. Douhéret and M. Morénas, 608.

Morin, F.G.

Structure and bonding in cyclic phosphoramidates as determined by carbon-13 magnetic resonance. G.W. Buchanan and F.G. Morin, 21.

Morrison, R.M.

The molecular and crystal structure of tetrakis(4-methylpyridine)cobalt(II) hexafluorophosphate. R.M. Morrison, R.C. Thompson, and J. Trotter, 135.

Morse, R.H.zx

The chlorosulfonyl moiety as a leaving group: hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Moseley, M.E.

A study of ¹⁴N relaxation and nitrogen-proton spin coupling in Watson-Crick base pair models through Fourier transform measurements of NH proton spin-lattice relaxation in the rotating frame. M.E. Moseley and P. Stilbs, 1075.

Motokaitis P I

Hydrolysis and ammonolysis of EDTA in aqueous solution. R.J. Motekaitis, D. Hayes, A.E. Martell, and W.W. Frenier, 1018.

Muchowski, J.M.

Synthesis of 1,3-dihydro-2*H*-benzo-1,4-diazepin-2-ones and 1,2-dihydropyrazin-2-ones via iminophosphoranes. Mass spectra of 1,5-disubstituted-1,2-dihydropyrazin-2-ones. J. Ackrell, E. Galeazzi, J.M. Muchowski, and L. Tökés, 2696.

Muhs. W.H.

Nucleic acid related compounds. 29. Thionyl chloride reactions with adenine nucleosides. Course of nucleophilic displacements and a preferential route to the 2'-chloro-arabino isomer. M.J. Robins, P. Sporns, and W. H. Muhs, 274.

Mukai, M.

On the syntheses and the optical properties of optically active 2-pyrazoline compounds. M. Mukai, T. Miura, M. Nanbu, T. Yoneda, and Y. Shindo, 360.

Mullick, G.

Les oxazolines-4 précurseurs de sels d'iminium fonctionnels. Ouverture en milieu anhydre de ces hétérocycles par des acides protoniques: obtention de sels d'iminium fonctionnels, étude de leur structure. M. Vaultier, G. Mullick et R. Carrié, 2876.

Mulot, P.

Milieux hyperbasiques: Synthèse de cyclanones α -cyanées par cyclisation anionique d'amides-nitriles. M. Larcheveque et P. Mulot, 17.

Mulot, P.

Milieux hyperbasiques: Recherches sur les amides et lactames ω-halogénés. Essais de cyclisation. T. Cuvigny, P. Hullot, P. Mulot, M. Larcheveque et H. Normant, 1201.

Murphy, C.N.

Studies of β -diketone complexes of rhenium. IX. The preparation and characterization of salts of the *trans*-dihalobis (pentane-2,4-dionato)-rhenium(III) anion and an improved preparation of tris(pentane-2,4-dionato)-rhenium(III). C.J.L. Lock, C.N. Murphy, and M.L. Turner, 1252.

Murphy, W.F.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Murnhy, W.J.

Active surface centres in vanadium pentoxide/alkali metal sulphate heterogeneous catalysts for 2-proponal decomposition. D.V. Fikis, W.J. Murphy, and R.A. Ross, 2464.

Murray, K.P.

The thermal chemistry of vinyldiazo compounds as a method for the generation of vinylmethylenes. J.A. Pincock and K.P. Murray, 1403.

Nadeau, Y.

An isokinetic relationship in the oxidation of acetals by ozone. Evidence for rotation before the oxidation of acyclic acetals. R.J. Taillefer, S.E. Thomas, Y. Nadeau, and H. Beierbeck, 3041.

Nadezhdin, A.D.

The oxidation of ascorbic acid and hydroquinone by perhydroxyl radicals. A flash photolysis study. A.D. Nadezhdin and H.B. Dunford, 3017.

Naguib, Y.M.A.

An investigation of the photodecomposition of N-bromosuccinimide; the generation and reactivity of succinimidyl radical. F.-L. Lu, Y.M.A. Naguib, M. Kitadani, and Y.L. Chow, 1967.

Naidu, P.R

Excess volumes for binary liquid mixtures of butylamine with aromatic and aliphatic hydrocarbons. A. Krishnaiah, M. Sreenivasulu, and P.R. Naidu, 1915.

Nakahara, M.

Raman spectra of single-crystal and liquid s-trioxane. M. Nakahara, P.T.T. Wong, and E. Whalley, 711.

Nakahara, M.

Effect of pressure on the Raman spectrum of s-trioxane I and II. M. Nakahara, P.T.T. Wong, G.J. Lewis, and E. Whalley, 2869.

Nakahara, Y.

A new type of *Lycopodium* alkaloid. The C₃₀N₃ alkaloids from *Lycopodium lucidulum*. W.A. Ayer, L.M. Browne, Y. Nakahara, M. Tori, and L.T.J. Delbaere, 1105.

Nakashima, T.T.

Metabolites of bird's nest fungi. Part 12. Studies on the biosynthesis of the cyathins. W.A. Ayer, S.P. Lee, and T.T. Nakashima, 3338.

Nalliah, B.C.

Fumaritine N-oxide, an alkaloid of Fumaria kralikii Jord. H.G. Kiryakov, D.W. Hughes, B.C. Nalliah, and D.B. MacLean, 53.

Nalliah, B.C.

A versatile synthesis of spirobenzylisoquinoline and phthalideisoquinoline alkaloids. Conversion of a phthalideisoquinoline to spirobenzylisoquinolines. B.C. Nalliah, D.B. MacLean, H.L. Holland, and R. Rodrigo, 1545.

Nambiar, K.P.

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Nanhu M

On the syntheses and the optical properties of optically active 2-pyrazoline compounds. M. Mukai, T. Miura, M. Nanbu, T. Yoneda, and Y. Shindo, 360.

Narasaraju, T.S.B.

Determination of solubility products of hydroxylapatite, chlorapatite, and their solid solutions. T.S.B. Narasaraju, K.K. Rao, and U.S. Rai, 1919.

Narasaraju, T.S.B.

Some thermodynamic aspects of dissolution of solid solutions of hydroxylapatites of phosphorus and arsenic. T.S.B. Narasaraju and U.S. Rai, 2662.

Nasehzadeh, A.

Use of scaled-particle theory in the assessment of the Ph_4As^+/Ph_4B^- assumption for single ions. M.H. Abraham and A. Nasehzadeh, 71.

Nasehzadeh, A.

Thermodynamics of transfer of Ph₄C; scaled-particle theory and the PH₄As+/Ph₄B⁺ assumption for single ions. M.H. Abraham and A. Nasehzadeh, 2004.

Natarajan, M.

Phase transformation studies on K₂Cr₂O₇. M. Natarajan and E.A. Secco, 2703.

Neeman, M.

Carbon-13 nuclear magnetic resonance spectroscopy of phorbol. M. Neeman and O.D. Simmons, 2071.

Neidert, E.E.

Cycloadditions and other chemistry of 4-oxygenated pyrazoles. P.J. Fagan, E.E. Neidert, M.J. Nye, M.J. O'Hare, and W.-P. Tang, 904.

Neppel, A.

Variable-temperature Raman spectroscopy as a probe of the supermolecular structure of ionomers. A. Neppel, I.S. Butler, and A. Eisenberg, 2518.

Neurohr, K.J.

The self-association of naturally occurring purine nucleoside 5'-monophosphates in aqueous solution. K.J. Neurohr and H.H. Mantsch, 1986.

Neurohr, K.J.

Specific binding of phenylalanine and tryptophan to β -nicotinamide adenine dinucleotide. K.J. Neurohr and H.H. Mantsch, 2297.

Ng. A.S.

Comment: 7α-Acetoxydihydronomilin and mexicanolide: limonoids from *Xylocarpus granatum* (Koenig). A.S. Ng and A.G. Fallis, 3088.

Nguyen, T.Q.

Partial deconvolution of the absorption spectrum of trapped electrons in 15 M LiCl aqueous glasses at 77 K. T.Q. Nguyen, 1758.

Niemczura, W

The conformational preference and barrier to internal rotation of an equatorial 3,5-dichlorophenyl group by the *J* method. Derivatives of cyclohexane, 1,3-dithiane, 1,3-dioxane, and 1,3-dioxolane. T. Schaefer, W. Niemczura, and W. Danchura, 355.

Niemczura, W.

Spin-spin coupling constants between side-chain and ring fluorine nuclei in some benzotrifluoride, benzal fluoride, and benzyl fluoride derivatives: coupling mechanisms. T. Schaefer, W. Niemczura, C.-M. Wong, and K. Marat, 807.

Niemczura, W.

Derivatives of diphenylmethane. Preferred conformations and barriers to internal rotation by the *J* method. T. Schaefer, W. Niemczura, W. Danchura, and T.A. Wildman, 1881.

Nigam, R.K

Thermodynamics of molecular interactions in aniline-benzene mixtures. R.K. Nigam, P.P. Singh, and K.C. Singh, 2211.

Nip, W.S.

A shock-tube study of ammonia pyrolysis. J.E. Dove and W.S. Nip, 689.

Nip, W.S.

Temperature dependence of rate constants for reaction of oxygen atoms, O(3P), with allene and 1,3-butadiene. W.S. Nip, D.L. Singleton, and R.J. Cvetanović, 949.

Noda, M.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Normant, H.

Milieux hyperbasiques: Recherches sur les amides et lactames ω-halogénés. Essais de cyclisation. T. Cuvigny, P. Hullot, P. Mulot, M. Larcheveque et H. Normant, 1201.

Norris, A.R

σ complexes as biophysical and biochemical probes. Part III. Competitive demethylation and σ-complex formation in reaction of 4,6-dinitro-7-methoxybenzofuroxan with nucleophiles. E. Buncel, N. Chuaqui-Offermanns, R.Y. Moir, and A.R. Norris, 494.

Norris, A.R.

The normal and the retro-Boulton-Katritzky rearrangement of hydroxy- and nitro-substituted benzofuroxans. E. Buncel, N. Chuaqui-Offermanns, and A.R. Norris, 2512.

Nöthe, D.

The reaction products of *N*-alkylquinoxalines with 7,7,8,8-tetracyanoquinodimethane. H.J. Keller, D. Nöthe, and M. Werner, 1033.

Nyathi, C.B.

Studies on the mass spectrometry of some acyclic nuclear substituted styryl ketoximes and ketones with special reference to the *ortho* effect. P.J. Smith, C.B. Nyathi, J.R. Dimmock, and L.M. Smith, 2908.

Nyburg, S.C.

The crystal and molecular structure of 6,7-bis(methoxycarbonyloxy)-1,2,3,4- tetrahydroisoquinoline-[1,2-c]-oxazol-2-one-[3,4-b]-1-chloro-3-methoxycarbonyloxy-6,7-methylenedioxyindane. W. Wong-Ng and S.C. Nyburg, 157.

Nye, M.J.

Cycloadditions and other chemistry of 4-oxygenated pyrazoles. P.J. Fagan, E.E. Neidert, M.J. Nye, M.J. O'Hare, and W.-P. Tang, 904.

Oakley, R.T.

The crystal and molecular structure of 1,4-diphenyl-2,2',3,3',5,5',6,6'-octamethylcyclo-1,4-diphospha-2,3,5,6-tetrasilahexane, a phosphorus-silicon heterocycle. A.W. Cordes, P.F. Schubert, and R.T. Oakley, 174.

Oakley, R.T.

Erratum: Crystal and molecular structures of 2.2.4,4.6,8,8-heptamethyl-6-methylamino-1.3,5-triaza-2,4,6,8(Pv)-tetraphosphorin and 2.2.4,4.6,8,8-heptamethyl-6-methylamino-7-benzoyl-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin. H.P. Calhoun, R.T. Oakley, N.L. Paddock, S.J. Rettig, and J. Trotter, 1273.

Oakley, R.T.

The crystal and molecular structure of the molybdenum tetracarbonyl complex of 1,4-diphenyl-2,2',3,3',5,5',6,6'-octamethylcyclo-1, 4-diphospha-2,3,5,6-tetrasilahexane. J.C. Calabrese, R.T. Oakley, and R. West, 1909.

Oakley, R.T.

The formation and structure of a 1,5-disubstituted S_4N_4 ring, $(Ph_3P=N)_2S_4N_4$, from the reaction of triphenylphosphine with tetrasulphur tetranitride. J. Bojes, T. Chivers, G. MacLean, R.T. Oakley, and A.W. Cordes, 3171.

Obafemi, C.A.

Rearrangement studies with ¹⁴C. XLIII. The acetolysis of trianisyl[2-¹⁴C]vinyl bromide. C.C. Lee, U. Weber, and C.A. Obafemi, 1384.

Ogilvie, K.K.

The synthesis of oligoribonucleotides. III. The use of silyl protecting groups in nucleoside and nucleotide chemistry. VIII. K.K. Ogilvie, A.L. Schifman, and C.L. Penney, 2230.

Ogilvie, K.K.

The synthesis of oligoribonucleotides V. The stepwise synthesis of the 3'-terminal heptanucleotide sequence of tRNA^{fMet} from E. coli. K.K. Ogilvie and N.Y. Theriault, 3140.

Ogini, W.O

Mercury(II) cyanide complexes of bulky phosphines. Preparation, characterization, and spectral studies. R.G. Goel, W.P. Henry, and W.O. Ogini, 762.

O'Hare, M.I.

Cycloadditions and other chemistry of 4-oxygenated pyrazoles. P.J. Fagan, E.E. Neidert, M.J. Nye, M.J. O'Hare, and W.-P. Tang, 904.

Ojo, J.F.

Kinetics and mechanism of oxidation of tris-(1,10-phenanthroline)iron(II) by chlorine and bromine and of the reduction of tris-(1,10-phenanthroline)iron(III) by iodide ions. J. Ige, J.F. Ojo, and O. Olubuyide, 2065.

Oka, K.

Determination of rates of hydrogen atom reactions with alkenes at 298 K by a double modulation technique. K. Oka and R.J. Cvetanović, 777.

Okazaki, K.

The reactivity of allyl and propargyl alcohols with solvated electrons: temperature and solvent effects. A.M. Afanassiev, K. Okazaki, and G.R. Freeman, 839.

Olofsson, I.V.

Apparent molar heat capacities and volumes of aqueous electrolytes at 25 °C: $Cr(NO_3)_3$, $LaCl_3$, $K_3Fe(CN)_6$, and $K_4Fe(CN)_6$. J.J. Spitzer, I.V. Olofsson, P.P. Singh, and L.G.Hepler, 2798.

Olubuyide, O.

Kinetics and mechanism of oxidation of tris-(1,10-phenanthroline)iron(II) by chlorine and bromine and of the reduction of tris-(1,10-phenanthroline)iron(III) by iodide ions. J. Ige, J.F. Ojo, and O. Olubuyide, 2065.

Ondrus, T.A.

Some reactions of 1.2-dihydropyridines with organic azides. Synthesis of diazabicylo[4.1.0]hept-4-enes. 1.2.5,6-tetrahydropyridylidene-2-cyan (sulfon, carbon) amides. T.A. Ondrus, E.E. Knaus, and C.S. Giam, 2342.

Oren, J.J.

The solvent extraction of Fe(III) from acidic chloride solutions by open cell polyurethane foam sponge (OCPUFS). J.J. Oren, K.M. Gough, and H.D. Gesser, 2032.

O'Shea, F.

Mechanistic and theoretical studies of the photochemistry of 5,6-dihydro-2-cyanobenzobarrelene. C.O. Bender and S.F. O'Shea, 2804.

Osman, A.M.

Photolysis of diarylcadmium compounds in benzene. A.M. Osman, A.I. Khodair, A.A. Abdel-Wahab, and A.M. El-Khawaga, 1923.

Osparpucu, T.

Influence de différents catalyseurs à base d'élements de transition du groupe VIII sur la polymérisation du norbornène. C. Taniélian, A. Kiennemann et T. Osparpucu, 2022.

Ottersen, T.

Pseudozoanthoxanthins from gold coral. R.E. Schwartz, M.B. Yunker, P.J. Scheuer, and T. Ottersen, 1707.

Oxton, I.A.

Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 404.

Oxton, I.A.

Hydrogen-deuterium exchange in tetrahydroborate salts. I.A. Oxton, A.G. McInnes, and J.A. Walter, 503.

Oxton. I.A.

Erratum: Infrared spectra of the ammonium ion in crystals. Part VI. Hydrogen bonding in simple and complex ammonium halides. O. Knop, I.A. Oxton, and M. Falk, 2003.

Paddock, N.L.

Erratum: Crystal and molecular structures of 2,2,4,4,6,8,8-heptamethyl-6-methylamino-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin and 2,2,4,4,6,8,8-heptamethyl-6-methylamino-7-benzoyl-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin. H.P. Calhoun, R.T. Oakley, N.L. Paddock, S.J. Rettig, and J. Trotter, 1273.

Paine, A.J.

Ketone or diazoalkane formation from Δ^3 -1,3,4-oxadiazolin-2-ones. Details of two competing thermolysis mechanisms. A.J. Paine and J. Warkentin, 2681.

Palameta, B.

Carbon-13 nuclear magnetic resonance spectral study of some isomeric derivatives of 2-methoxytropone. Troponoid-II. J.F. Bagli, T. Bogri, B. Palameta, and M. St-Jacques, 1949.

Palma, M.

Coefficients B de viscosité dans les systèmes ternaires aqueux. III. Halogénures alcalins – alcool tert-butylique – eau à 25 °C. M. Palma et J.-P. Morel, 3247.

Pandey, J.P.

Structure of Ni[Ag(SCN)₂]₂ • 2diox and its derivatives. P.P. Singh, S.A. Khan, and J.P. Pandey, 3061.

Pandey, P.K.K.

Theoretical study of isotropic hyperfine coupling constants in small radicals by MINDO/3 method. P.K.K. Pandey and P. Chandra, 3126.

Pandey, R.N.

π-Complex equilibria between ethylene and PdCl₄²⁻ in aqueous solution. R.N.Pandey and P.M. Henry, 982.

Paputa, M.C.

Pyrolysis of triethylgallium by the toluene carrier technique. M.C. Paputa and S.J.W. Price, 3178.

Paquet, A

Further studies on the use of the thallium salt of N-hydroxysuccinimide for the preparation of succinimidyl esters. A. Paquet, 2775.

Paquette, G.

Cinétique de la formation de métalloporphyrine Cu(II)—dérivé tétra éthylènediamino de la protoporphyrine IX (ENP) en milieu aqueux. G. Paquette et M. Zador, 2916.

Park, J.M.

X-ray crystallographic study of Ni(II)bis(morpholine-N-carbodithioate) and epr studies of Cu(II) bis(morpholine-N-carbodithioate) and Cu(II)bis(pyrrolidine-N-carbodithioate). F.G. Herring, J.M. Park, S.J. Rettig, and J. Trotter, 2379.

Parr, W.J.E

In-plane and out-of-plane conformational preferences of the sulfhydryl group in some halothiophenol derivatives. T. Schaefer and W.J.E. Parr, 1421.

Parris, M.

Chromium exchange between chromium(II) and benzylchromium(III) ions. M. Parris and A.W. Ashbrook, 1233.

Parsons, J.M.

Decomposition of vinyl chloride induced by multiphoton absorption of infrared radiation. I. Decomposition yields. A. Gandini, C. Willis, R.A. Back, and J.M. Parsons, 953.

Passmore, J.

The preparation and crystal structure of pentaiodinium hexafluoroantimonate(V) containing I₁₅³⁺. J. Passmore, P. Taylor, T. Whidden, and P.S. White, 968.

Passmore, J.

Preparation of copper(1) carbonyl hexafluoroarsenate, CuCO+AsF₆⁻, and copper(1) trifluorophosphine hexafluoroarsenate, CuPF₃+AsF₆⁻. C.D. Desjardins, D.B. Edwards, and J. Passmore, 2714.

Passmore, J.

The preparation and Raman spectra of SeBr₃AsF₆, SeBr₃SbF₆, TeBr₃AsF₆, and normal coordinate analyses of the tribromosulphur(IV), tribromoselenium(IV), and tribromotellurium(IV) cations. W.V.F. Brooks, J. Passmore, and E.K. Richardson, 3230.

Pasutto, F.M.

Some reactions of 10-substituted-10*H*-pyrido[3,2-*b*][1,4]benzothiazine-*n*-butylithium adducts with acyl and sulfonyl chlorides. F.M.Pasutto and E.E. Knaus, 2371.

Paven, J.-L

Etude structurale du monofluorophosphate de potassium K₂PO₃F. J.-L. Payen, J. Durand, L. Cot et J.-L. Galigne, 886.

Peacock, L.A.

Heats of vaporization and gaseous heats of formation of some five- and six-membered ring alkenes. R. Fuchs and L.A. Peacock, 2302.

Pelletier, S.W.

¹³C nuclear magnetic resonance spectra of some C₁₉-diterpenoid alkaloids and their derivatives. S.W. Pelletier, N.V. Mody, and R.S. Sawhney, 1652.

Penney, C.L.

The synthesis of oligoribonucleotides. III. The use of silyl protecting groups in nucleoside and nucleotide chemistry. VIII. K.K. Ogilvie, A.L. Schifman, and C.L. Penney, 2230.

Pépin, Y.

Synthesis of a thioanalogue of neamine. The reaction of nitrosochloroadducts of glycals with thiols. G. Kavadias, R. Droghini, Y. Pépin, M. Ménard, and P. Lapointe, 1056.

Ab initio configuration interaction study of the $A^2A_1-^2B_1$ transition of PH₂ and PD₂. M. Peric, R.J. Buenker, and S.D. Peyerimhoff, 2491.

Perlin, A.S.

The conformations of furanosides. A 13C nuclear magnetic resonance study. N. Cyr and A.S. Perlin, 2504.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127.

Persin, M.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127.

Effect of temperature on the fluorescence quenching by N-bromosuccinamide of tryptophan residues in proteins. B.F. Peterman and K.J. Laidler, 1471.

Peterson, L.K.

The crystal and molecular structures of bromotricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)rhenium(I) and tricarbonyl(phenylbis(3,5-dimethylpyrazolyl)phosphine)tungsten(0). R.E. Cobbledick, L.R.J. Dowdell, F.W.B. Einstein, J.K. Hoyano, and L.K. Peterson, 2285.

Peterson, L.K.

Solution structures of dimeric methylpyrazolyl and indazolyl dimethyl-derivatives of boron, gallium, and indium from ¹H nuclear magnetic resonance data. L.K. Peterson and K.I. Thé, 2520.

A carbon-13 nuclear magnetic resonance study of benzyl cyanide. R.E. Wasylishen and B.A. Pettitt, 1274.

Peverimhoff, S.D.

Ab initio SCF and CI calculations for ground and low-lying valence and Rydberg excited states of HOCl and HClO in linear and bent nuclear conformations. P.J. Bruna, G. Hirsch, S.D. Peyerimhoff, and R.J. Buenker, 1839.

Ab initio configuration interaction study of the $A^2A_1-^2B_1$ transition of PH₂ and PD₂. M. Peric, R.J. Buenker, and S.D. Peyerimhoff, 2491.

Peyerimhoff, S.D.

Theoretical study of the $X^2B_1,A^2A_1,^2B_2$ valence-shell and the first $\pi_{u^2}3s$ -type doublet and quartet Rydberg states of NH₂. S.D. Peyerimhoff and R.J. Buenker, 3182.

Philipp, A.

Derivatives of fused 3-hydroxymethyl-pyran-4-ones as a mobile keto-allyl system. A. Philipp and I. Jirkovsky, 3292.

Philippe, R.

Excess heats of tri-n-alkylamines and tetraalkyl tin compounds in linear and branched alkanes: correlations of molecular orientations and steric hindrance effect. R. Philippe, G. Delmas, and P.N. Hong, 517.

Thermodynamic properties of binary mixtures containing thiaalkanes. II. Thermal pressure coefficients of pure compounds at 298.15 K. R. Philippe, Z. Ferhat-Hamida, and J.C. Merlin, 3135.

Intramolecular alkylation of α , β -unsaturated ketones: a study of the effect of substrate structure and experimental conditions on the site of alkylation. E. Piers, M. Zbozny, and D.C. Wigfield, 1064.

Piers, E.

Intramolecular alkylation of α , β -unsaturated ketones: a total synthesis of (\pm)-isolongifolene and an approach to the synthesis of zizaane-type sesquiterpenoids. E. Piers and M. Zbozny, 2249.

Etude par résonance magnétique nucléaire de composés organiques contenant des chalcogènes. II. L'éther de diphényle et ses analogues soufré, sélénié et telluré. G. Llabrès, M. Baiwir, L. Christiaens et J.-L. Piette, 2967.

Pillay, K.S.

The transannular electrophilic reaction of alkenyl nitroso compounds and the stereochemistry of nitrosyl chloride addition. Y.L. Chow, K.S. Pillay, and H. Richard, 2923.

Triphenylphosphine complexes of mercury(II) acetate and fluoroacetates. Preparation, characterization, and spectral studies. T. Allman. R.G. Goel, and P. Pilon, 91.

Infrared multiphoton chemistry of fluoroform-d. M. Gauthier, R. Pilon, P.A. Hackett, and C. Willis, 3173.

Pincock, J.A.

The thermal chemistry of vinyldiazo compounds as a method for the generation of vinylmethylenes. J.A. Pincock and K.P. Murray, 1403.

Poh, B.-L.

 ρ as a quantitative measure of transition state structure. B.-L. Poh, 255.

Poh, B.-L.

Estimation of the fraction of dative structure in molecular complexes using Hammett ρ values. B.-L. Poh, 1418.

Pommier, H.P.

Synthesis of long-chain coumarines and 2*H*-chromenes, Spectral and monolayer properties. H.P. Pommier, J. Baril, I. Gruda, and R.M. Leblanc, 1377.

Poppe, B.E.

Modelling of interactions in solutions: alkali halides in DMSO. P. Kruus and B.E. Poppe, 538.

Possel, O.

Carbon-13 nuclear magnetic resonance spectra of oxazoles. H. Hiemstra, H.A. Houwing, O. Possel, and A.M. van Leusen, 3168.

Potier, P.

Réarrangement du squelette de la catharanthine. IV. Nor-5 catharanthine et couplage avec la vindoline. R.Z. Andriamialisoa, N. Langlois, Y. Langlois, P. Potier et P. Bladon, 2572.

Poulton, G.A.

Pyrones. IV. Phacidin, a fungal growth inhibitor from *Potebniamyces balsamicola* Smerlis var. *boycei* Funk. G.A. Poulton, T.D. Cyr, and E.E. McMullan, 1451.

Powell, H.K.J.

Ethylenediamine–*N*,*N'*-diacetic acid complexes with divalent manganese, zinc, cadmium, and lead: a thermodynamic study. R.J. Gualtieri, W.A.E. McBryde, and H.K.J. Powell, 113.

Powell, H.K.,

Reactions of triethylenetetramine with protons and bivalent zinc, cadmium, and lead in aqueous solution and aqueous dioxane (50% v/v). W.A.E. McBryde and H.K.J. Powell, 1785.

Powell, J.

Binuclear palladium complexes of 3,5-disubstituted pyrazoles. J. Powell and A. Kuksis, 2986.

Prasad, G.

Oxidation products of N-substituted imines and ketone hydrazones in the presence of sodium in ether: new and convenient syntheses of diimines and substituted aryl diazomethanes. B.P. Giri, G. Prasad, and K.N. Mehrotra, 1157.

Prejzner, J.

Cyanoethylation of the salts of cyanoguanidine in aprotic solvents. P. Aleksandrowicz, M. Bukowska, M. Maciejewski, and J. Prejzner, 2593.

Price S.I.W

Determination of $\Delta H^0_{1298}(C_6F_{10},g)$ and $\Delta H^0_{1298}(C_6F_{12},g)$ from studies of the combustion of decafluorocyclohexene and dodecafluorocyclohexane in oxygen and calculation of the resonance energy of hexafluorobenzene. S.J.W. Price and H.J. Sapiano, 685.

Price, S.J.W.

Determination of ΔH_{1298}^0 ($C_{12}F_{10}$, g) from studies of the combustion of decafluorobiphenyl in oxygen and calculation of $D(C_6F_5 - C_6F_5)$. S.J.W. Price and H.J. Sapiano, 1468.

Price, S.J.W.

The ultraviolet photoelectron spectra of C_6F_5X compounds, $X = (F,Cl,Br,I,H,CH_3)$. B.C. Trudell and S.J.W. Price, 2256.

Price, S.J.W.

Pyrolysis of triethylgallium by the toluene carrier technique. M.C. Paputa and S.J.W. Price, 3178.

Prima D H

Analytical potentiometric and spectroscopic study of the equilibria in the aqueous nickel(II)-triethylenetetramine and nickel(II)-p-penicillamine systems. S.H. Laurie, D.H. Prime, and B. Sarkar, 1411.

Pritchard, H.O.

On the interpretation of measured rotational and vibrational relaxation times. III. Failure of the mixture rule for non-dilute gases H.O. Pritchard, N.I. Labib, and A. Lakshmi, 1115.

Pritchard, H.O.

The reaction of methylene radicals with methyl isocyanide. M.T.J. Glionna and H.O. Pritchard, 1229.

Pritchard, H.O.

Perturbed normal-mode analysis of induction times, relaxation times, and reaction rates in unimolecular reactions. A.W. Yau and H.O. Pritchard, 1723.

Pritchard, H.O.

Unimolecular reactions of N₂O and CO₂ at high pressure. A.W. Yau and H.O. Pritchard, 1731.

Pritchard H O

On the reliability of the inversion of the Arrhenius rate law. A.W. Yau and H.O. Pritchard, 2458.

Pritchard, H.O.

The thermal isomerisation of allyl isocyanide. M.T.J. Glionna and H.O. Pritchard, 2482.

Pritchard, H.O.

Thermal explosions of methyl isocyanide: a re-examination of the data. H.O. Pritchard, 2677.

Pritchard, H.O.

The commutative property of strong-transition rate matrices. H.O. Pritchard and A. Lakshmi, 2793.

Proctor, J.

Reactions of the tetrasulfur pentanitride(-1) ion with halogens: synthesis, spectroscopic characterization, and crystal structure of pentasulfur hexanitride. T. Chivers and J. Proctor, 1286.

Pruszynski, P.

Kinetic isotope effect and tunnelling in the proton transfer reaction between 2,4,6-trinitrotoluene and 1,1',3,3'-tetramethylguanidine in dimethylformamide solvent. A. Jarczewski, P. Pruszynski, and K.T. Leffek, 669.

Puddephatt, R.J.

Insertion of an acetylene into the platinum-todide bond. N. Chaudhury and R.J. Puddephatt, 2549.

Queen, A.

The kinetics of the reactions of boric acid with 5-substituted salicylate ions. A. Queen, L. Davies, and A. Con, 920.

Oueen, A.

The mechanism of the solvolysis of *p*-methoxybenzyl chloride in aqueous acetone containing pyridine or thiourea. Evidence for concurrent substitution by unimolecular and bimolecular processes. A. Queen, 2646.

Quinn, M.J.

The absorption of tri-n-butylphosphate at the n-dodecane-water interface. N.H. Sagert, W. Lee, and M.J. Quinn, 1218.

Rabenstein, D.L.

Application of the Osterberg-Sarkar-Kruck method for obtaining free ion concentrations in solutions of complex equilibria. R. Guevremont and D.L. Rabenstein, 466.

Rabockai, T.

Electrochemical studies of the Pb2+/Pb(Hg) system in aqueous and aqueous ethylene glycol solutions. T. Rabockai, 1801.

Rahman, M.L.

Kinetic studies on the catalytic reduction of nitrotoluene by hydrazine. N. Goswami and M.L. Rahman, 3047.

Rai, U.S.

Determination of solubility products of hydroxylapatite, chlorapatite, and their solid solutions. T.S.B. Narasaraju, K.K. Rao, and U.S. Rai, 1919.

Rai, U.S.

Some thermodynamic aspects of dissolution of solid solutions of hydroxylapatites of phosphorus and arsenic. T.S.B. Narasaraju and U.S. Rai. 2662.

Rakhit, S.

Formation of aminals from amines via Pummerer rearrangement. S. Rakhit, M. Georges, and J.F. Bagli, 1153.

Ramdani, A.

Polymerisation of the 3-halogenomethyl-5-methyl(or 5-phenyl)-3'(5')-methyl-1,5'(3')-dipyrazolylmethane. Synthesis of new macrocyclic systems. A. Fruchier, A. Ramdani, and G. Tarrago, 1897.

Ramos, J.J.M.

Thermodynamic studies in solution. Part IV. Solvent effect on the solvolysis of *tert*-butyl chloride. A new treatment of the experimental data. J.J.M. Ramos, J. Reisse, and M.H. Abraham, 500.

Rane, A.T.

Self-adduct formation in the extraction of cobalt(II) chelates of certain 8-quinolinols. A.T. Rane and K.S. Bhatki, 580.

Rao, K.K.

Determination of solubility products of hydroxylapatite, chlorapatite, and their solid solutions. T.S.B. Narasaraju, K.K. Rao, and U.S. Rai, 1919.

Ratcliffe, R.M.

The azidonitration of tri-O-acetyl-D-galactal. R.U. Lemieux and R.M. Ratcliffe, 1244.

Rausch, M.D.

Fragmentation and rearrangement processes in the mass spectra of perfluoroaromatic compounds. Part XI. Heterocyclic derivatives of phosphorus and some transition metals. T.R.B. Jones, J.M. Miller, S.A. Gardner, and M.D. Rausch, 335.

Redda, K.

Quaternization and sodium borohydride reduction of N-(4-pyridylcarbonylamino)-1.2.3,6-tetrahydropyridine. Syntnesis of N-amino-1.2.3,6-tetrahydropyridines. K. Redda, L.A. Corleto, and E.E. Knaus, 2981.

Reed, D.W.

Polar radicals XIII. A reinvestigation of the polar effects reported for the hydrogen transfer reactions of the 1-ethylpentyl radical. D.D. Tanner, R. Henriquez, and D.W. Reed, 2578.

Reeve. W.

Reactions of phenyl(trichloromethyl)carbinol with substituted thioureas, thiobenzhydrazide, and amino thiols to form heterocyclic compounds. W. Reeve and W.R. Coley III, 444.

Reeve, W.

A new method for the determination of the relative acidities of alcohols in alcoholic solutions. The nucleophilicities and competitive reactivities of alkoxides and phenoxides. W. Reeve, C.M. Erikson, and P.F. Aluotto, 2747.

Reeves, L.W.

Structural changes at hydrophobic/hydrophilic interfaces induced by thermal changes and isotopic composition of the water. F.Y. Fujiwara and L.W. Reeves, 478.

Reeves, L.W.

Studies in membrane processes. VIII. A deuterium and sodium nuclear magnetic resonance investigation into the hexadecylpyridinium/hexadecyltrimethylammonium liquid crystalline system. L.W. Reeves, A.S. Tracey, and M.M. Tracey, 747.

Reeves, L.W.

Micellar super-structure in magnetically aligned lyotropic liquid crystals studied by light scattering. P.C. Isolani, L.W. Reeves, and J.A. Vanin, 1108.

Reid, G.R.

Total synthesis of androstanes. M. Kakushima, J. Das, G.R. Reid, P.S. White, and Z. Valenta, 3356.

Reinheimer, J.D.

The effect of tetra-n-butylammonium bromide on the proton magnetic resonance of 1-X-2,4-dinitrobenzenes. D.R. McLaughlin and J.D. Reinheimer, 835.

Reisse, J.

Thermodynamic studies in solution. Part IV. Solvent effect on the solvolysis of *tert*-butyl chloride. A new treatment of the experimental data. J.J.M. Ramos, J. Reisse, and M.H. Abraham, 500.

Remin, M.

¹H nuclear magnetic resonance study of 2,2'-anhydro-O²-β-D-arabinosyluracil. Four- and five-bond coupling constants in the sugar moiety. F.E. Hruska, J.G. Dalton, and M. Remin, 2191.

Renaud, R.N.

Electrochemical synthesis of some 1,2-dimethyl 1,2-disubstituted ethylenes. R.N. Renaud and P.J. Champagne, 990.

Renaud, R.N.

Electrochemical oxidation of trifluoroacetic acid anion. IV. Synthesis and stereochemistry of products of trifluoromethyl radical addition to some mono- and disubstituted olefins. R.N.Renaud, P.J. Champagne, and M. Savard, 2617.

Rendell, J.C.T

Complexes of substituted benzothiazoles. 1. Cobalt(II), copper(II), and zinc(II) complexes of 2,2'-o-phenylenebisbenzothiazole: a potential N or S donor ligand. J.C.T. Rendell and L.K. Thompson, 1.

Rettig, S.J.

Complexes of the methyl tris(3,5-dimethylpyrazol-1-yl) gallate ligand, $MeGa(N_2C_5H_7)_3^-$, and its hydroxy derivative, $MeGa(N_2C_5H_7)_2(OH)^-$. Crystal and molecular structure of $[MeGa(N_2C_5H_7)_2(OH)]Mo(CO)_2(\eta^3-C_4H_7)$. K.R. Breakell, S.J. Rettig, A. Storr, and J. Trotter, 139.

Rettig, S.J.

Synthesis and crystal and molecular structure of ethanolaminogallium dimethyl, H₂NCH₂CH₂O • GaMe₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 586.

Rettig, S.J

Erratum: Crystal and molecular structures of 2,2,4,4,6,8,8-heptamethyl-6-methylamino-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin and 2,2,4,4,6,8,8-heptamethyl-6-methylamino-7-benzoyl-1,3,5-triaza-2,4,6,8(Pv)-tetraphosphorin. H.P. Calhoun, R.T. Oakley, N.L. Paddock, S.J. Rettig, and J. Trotter, 1273.

Rettig, S.J.

Crystal and molecular structure of $(\eta^3$ -2-methylallyl)[dimethyl(ethanolamino) (3.5-dimethyl-1-pyrazolyl)gallato(N-(2),N(3),O)]dicarbonylmolybdenum, [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NH₂)]Mo(CO)₂(η^3 -C₄H₇). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 1335.

Rettig, S.J.

Crystal and molecular structure of bis[methyltris(1-pyrazolyl)gallato]nickel(II). S.J.Rettig, A. Storr, and J. Trotter, 1823.

Rettig, S.J.

X-ray crystallographic study of Ni(II)bis(morpholine-N-carbodithioate) and epr studies of Cu(II) bis(morpholine-N-carbodithioate) and Cu(II)bis(pyrrolidine-N-carbodithioate). F.G. Herring, J.M. Park, S.J. Rettig, and J. Trotter, 2379.

Rettig, S.J.

Neutral pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3090.

Rettig, S.J.

Anionic pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3099.

Rettig, S.J.

Reactions of Ni(NO)I with pyrazolyl gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)-(OCH₂CH₂NMe₅)]Ni(NO). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3107.

Rettig, S.J.

Five-coordinate iron and manganese dinitrosyl complexes incorporating tridentate chelating dimethyl(N,N-dimethylethanolamino)(pyrazolyl)gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NMe₂)]Fe(NO)₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3113.

Rettig, S.J.

Synthesis and structure of 3,5-dimethylpyrazolyl iron and cobalt dinitrosyl dimers. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3119.

Reynolds, W.F.

Hydrogen exchange and isomerization in *ortho* substituted benzamides. On the question of free rotation in an *N*-protonated amide. R.A. McClelland and W.F. Reynolds, 2896.

Richard, H

The transannular electrophilic reaction of alkenyl nitroso compounds and the stereochemistry of nitrosyl chloride addition. Y.L. Chow, K.S. Pillay, and H. Richard, 2923.

Richard, H.

Generation of aminyl and aminium radicals by photolysis of *N*-nitrodialkylamines in solution. Y.L. Chow, H. Richard, R.W. Snyder, and R.W. Lockhart, 2936.

Richardson, E.K.

The preparation and Raman spectra of SeBr₃AsF₆, SeBr₃SbF₆, TeBr₃AsF₆, and normal coordinate analyses of the tribromosulphur(IV), tribromoselenium(IV), and tribromotellurium(IV) cations. W.V.F. Brooks, J. Passmore, and E.K. Richardson, 3230.

Richardson, M.F.

The crystal and molecular structure of a compound containing a novel ring system: (*E*)-6-(bromomethylene)-5,6-dihydro-4,4-dimethyl-2-phenyl-4*H*-1,3,4-oxadiazinium bromide. D.M. Thompson, I.D. Brindle, and M.F. Richardson, 3157.

Ridaura-Sanz, V.E.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Ridaura-Sanz, V.E.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Ripmeester, J.A.

Molecular reorientation in solid sym-triazine. J.A. Ripmeester and R.K. Boyd, 128.

Ripmeester, J.A.

The conformation and reorientation of enclathrated 1,2-dichloroethane. S.K. Garg, D.W. Davidson, S.R. Gough, and J.A. Ripmeester, 635.

Rivest, R.

Structure of a new crystalline modification of dithiocyanato(triphenylphosphine)mercury(II). R.C. Makhija, R.Rivest, and A.L. Beauchamp, 2555.

Robertson R.F.

Conformations of bridged diphenyls. XIV. Crystal structure of 2-(4'-carbomethoxy-2'-aminophenoxy)-1,3,5-trimethylbenzene and endocyclic angles in bridged diphenyls. R. Gopal, W.D. Chandler, and B.E. Robertson, 2767.

Robins, M.J.

Nucleic acid related compounds. 29. Thionyl chloride reactions with adenine nucleosides. Course of nucleophilic displacements and a preferential route to the 2'-chloro-arabino isomer. M.J. Robins, P. Sporns, and W. H. Muhs, 274.

Rochon, F.D.

The molecular and crystal structure of [Pt(diethylenetriamine)(guanosine)](ClO₄)₂. R. Melanson and F.D. Rochon, 57.

Rochon, F.D.

cis- and trans-Platinum compounds of substituted pyrimidines and their products from thiourea in Kurnakov's reaction. P.-C. Kong and F.D. Rochon, 526.

Rochon, F.D.

Halogen-bridged complexes of platinum(II) and their reactions with dimethylformamide. P.-C. Kong and F.D. Rochon, 682.

Röderer, R.

Ipso nitration XXI. Nitration of *p*-tolylalkanoic acids and derivatives: spiro adducts. A. Fischer, D.R.A. Leonard, and R. Röderer, 2527.

Rodrigo, R.

A versatile synthesis of spirobenzylisoquinoline and phthalideisoquinoline alkaloids. Conversion of a phthalideisoquinoline to spirobenzylisoquinolines. B.C. Nalliah, D.B. MacLean, H.L. Holland, and R. Rodrigo, 1545.

Rodriguez, J.

Conformational analysis of acyclic compounds with oxygen-sulphur interactions. Part VI. Some 1-thioderivatives of 2-propanol and its acetates. F. Alcudia, J.L.G. Ruano, J. Rodriguez, and F. Sánchez, 2426.

Roscoe, J.M.

The reactions of atomic oxygen with 1-propanol and 2-propanol. A.L. Ayub and J.M. Roscoe, 1269.

Rosell, K.-G.

Structural elucidation of the capsular polysaccharide antigen of *Neisseria meningitidis* serogroup Z using ¹³C nuclear magnetic resonance. H.J. Jennings, K.-G. Rosell, and C.P. Kenny, 2902.

Ross, R.A.

The carbon monoxide/nitrous oxide reaction. Kinetics of catalysis on TiO₂ (anatase) and ZnO and activity correlations for the first-row transition metal oxides. B.W. Krupay and R.A. Ross, 320.

Ross, R.A.

The catalytic reaction between carbon monoxide and nitrous oxide over chromium(III) oxide. B.W. Krupay and R.A. Ross, 718. Ross, R.A.

Active surface centres in vanadium pentoxide/alkali metal sulphate heterogeneous catalysts for 2-proponal decomposition. D.V. Fikis, W.J. Murphy, and R.A. Ross, 2464.

Rougee, M.

Five-coordinate iron(II) porphyrins derived from $meso-\alpha$, β , γ , δ tetraphenylporphin: synthesis, characterization, and coordinating properties. M. Momenteau, B. Loock, E. Bisagni, and M. Rougee, 1804.

Roustan, J.-L.A

Barriers to rotation about the N—CO bond in N-vinyl amides; a new two-site approximation method. R.R. Fraser, J.-L.A. Roustan, and J.R. Mahajan, 2239.

Roustan, J.L.A.

Electrophilie du ligande η^3 -allylique de complexes η^3 -allyl-dicarbonyl-nitrosyl-fer. J.L.A. Roustan and F. Houlihan, 2790.

Ruano, J.L.G.

Conformational analysis of acyclic compounds with oxygen-sulphur interactions. Part VI. Some 1-thioderivatives of 2-propanol and its acetates. F. Alcudia, J.L.G. Ruano, J. Rodriguez, and F. Sánchez, 2426.

Ruest, L.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Russell, K.E.

The dual role of the coinitiator in the cationic polymerization of isobutene. K.E. Russell and L.G.M.C. Vail, 2355.

Rúveda, E.A.

¹³C nuclear magnetic resonance spectral and conformational analysis of naturally occurring tetrahydrofuran lignans. S.F. Fonseca, L.E.S. Barata, E.A. Rúveda, and P.M. Baker, 441.

Ryan, M.D.

α, β-Epoxy sulfoxides and sulfones. Synthesis and some reactions. T. Durst, K.-C. Tin, F. de Reinach-Hirtzbach, J.M. Decesare, and M.D. Ryan, 258.

Ryan, M.D.

Chemoselectivity in the synthesis of thiocyanates and isothiocyanates: the reaction of alkenes with benzeneselenenyl thiocyanate in methylene chloride. D.G. Garratt, M.D. Ryan, and M. Ujjainwalla, 2145.

Rycroft, D.S.

The reaction of ethyl 3.4.6-tri-*O*-acetyl-2-amino-2-deoxy-β-D-glucoside in acetone. B. Capon, C. Labbé, and D.S. Rycroft, 2978.

Saa. J.M.

Splendidine, a new oxoaporphine alkaloid from Abuta rufescens Aublet. J.W. Skiles, J.M. Saa, and M.P. Cava. 1642.

Saar, R.A.

Complexation of cadmium(II) with water- and soil-derived fulvic acids: effect of pH and fulvic acid concentration. R.A. Saar and J.H. Weber, 1263.

Sagert, N.H.

The absorption of tri-n-butylphosphate at the n-dodecane-water interface. N.H. Sagert, W. Lee, and M.J. Quinn, 1218.

St-Jacques, M.

Carbon-13 nuclear magnetic resonance spectral study of some isomeric derivatives of 2-methoxytropone. Troponoid-II. J.F. Bagli. T. Bogri, B. Palameta, and M. St-Jacques, 1949.

St-Jacques, M

Proton and carbon-13 nuclear magnetic resonance studies of the conformational properties of seven-membered heterocycles. 2,4-Benzodithiepin and its derivatives. F. Sauriol-Lord and M. St-Jacques, 3221.

Saint-Laurent, L.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Saintonge, R.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Sakakibara, T.

An interesting azirine induced reaction of the cyclopentadienyliron dicarbonyl dimer. H. Alper and T. Sakakibara, 1541.

Salisbury, P.

Chemical and microbiological remote functionalisation of (+)- and (-)-bornyl acetate. M.S. Allen, N. Darby, P. Salisbury, E.R. Sigurdson, and T. Money, 733.

Salman, S.R.

Solvent-induced changes in ${}^2J(H,F)$ for fluoroform via van der Waals interactions. Non-contact contributions to spin-spin coupling constants involving a proton? T. Schaefer, H.M. Hutton, and S.R. Salman, 1877.

Saluja, P.P.S

Stabilities of complexes $(N_2)_nH^+$, $(CO)_nH^+$, and $(O_2)_nH^+$ for n=1 to 7 based on gas phase ion-equilibria measurements. K. Hiraoka, P.P.S. Saluja, and P. Kebarle, 2159.

Sánchez, F.

Conformational analysis of acyclic compounds with oxygen-sulphur interactions. Part VI. Some 1-thioderivatives of 2-propanol and its acetates. F. Alcudia, J.L.G. Ruano, J. Rodriguez, and F. Sánchez, 2426.

Sandorfy, C

Gas phase observation of the first overtone of the H—F stretching fundamental in hydrogen bonded complexes. J.W. Bevan, B. Martineau, and C. Sandorfy, 1341.

Sandoval, D.-N.

The chlorosulfonyl moiety as a leaving group; hydride reduction of sulfonyl chlorides. H.O. Fong, W.R. Hardstaff, D.G. Kay, R.F. Langler, R.H. Morse, and D.-N. Sandoval, 1206.

Santini, C.

Passage des phosphorinènes aux hexadiényl-3,5-phosphines: un nouveau type de coordinat P(III)-diène pour les métaux de transition. F. Mathey et C. Santini, 723.

Santos, E.

Stereochemistry of the Bucherer-Bergs and Strecker reactions of tropinone, cis-bicyclo[3.3.0]octan-3-one and cis-3,4-dimethylcyclopentanone. G.G. Trigo, C. Avendaño, E. Santos, J.T. Edward, and S.C. Wong, 1456.

Sapiano, H.J.

Determination of $\Delta H^0_{1298}(C_6F_{10},g)$ and $\Delta H^0_{1298}(C_6F_{12},g)$ from studies of the combustion of decafluorocyclohexene and dodecafluorocyclohexane in oxygen and calculation of the resonance energy of hexafluorobenzene. S.J.W. Price and H.J. Sapiano, 685.

Sapiano, H.J.

Determination of $\Delta H_{1298}^0(C_{12}F_{10},g)$ from studies of the combustion of decafluorobiphenyl in oxygen and calculation of $D(C_6F_5-C_6F_5)$. S.J.W. Price and H.J. Sapiano, 1468.

Saraswat, I.P.

Kinetics of ion exchange of some complex cations on chromium ferrocyanide gel. I.P. Saraswat, S.K. Srivastava, and A.K. Sharma, 1214.

Sarkar, B.

Analytical potentiometric and spectroscopic study of the equilibria in the aqueous nickel(II)-triethylenetetramine and nickel(II)p-penicillamine systems. S.H. Laurie, D.H. Prime, and B. Sarkar, 1411.

Sasaki, J.

Total synthesis of barbatane sesquiterpenes: α - and β -barbatenes. gymnomitrol, and isogymnomitrol. M. Kodama, T. Kurihara, J. Sasaki, and S. Itô, 3343.

Saumagne, P.

Etude par spectrométrie infrarouge de l'action de solvants aprotiques sur l'association ester-eau et ester-Ba²⁺. Discussion du rôle catalytique du solvant et de l'ion Ba²⁺ dans l'hydrolyse alcaline du propionate de méthyle. A. Le Narvor et P. Saumagne, 400.

Saunders, J.K.

Anisotropic motion in 1-substituted adamantanes from 13Cmr relaxation time data. H. Beierbeck, R. Martino, and J.K. Saunders, 1224.

Sauriol-Lord, F.

Proton and carbon-13 nuclear magnetic resonance studies of the conformational properties of seven-membered heterocycles. 2,4-Benzodithiepin and its derivatives. F. Sauriol-Lord and M. St-Jacques, 3221.

Savard, M.

Electrochemical oxidation of trifluoroacetic acid anion. IV. Synthesis and stereochemistry of products of trifluoromethyl radical addition to some mono- and disubstituted olefins. R.N.Renaud, P.J. Champagne, and M. Savard, 2617.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Synthèse et amination réductrice de phosphonopyruvates: préparation d'acides amino-2 carboxy-2 alkylphosphoniques (βphosphonoalanine). J.-M. Varlet, N. Collignon, et P. Savignac, 3216.

Sawhney, R.S.

¹³C nuclear magnetic resonance spectra of some C₁₉-diterpenoid alkaloids and their derivatives. S.W. Pelletier, N.V. Mody, and R.S. Sawhney, 1652.

Schaefer, T.

The conformational preference and barrier to internal rotation of an equatorial 3,5-dichlorophenyl group by the J method. Derivatives of cyclohexane, 1,3-dithiane, 1,3-dioxane, and 1,3-dioxolane. T. Schaefer, W. Niemczura, and W. Danchura, 355.

Comparison of the intramolecular hydrogen bonds and of the internal barrier to rotation of the hydroxyl and sulfhydryl groups in 2-methoxyphenol and 2-methoxythiophenol. T. Schaefer and T.A. Wildman, 450.

Schaefer, T.

Spin-spin coupling constants between side-chain and ring fluorine nuclei in some benzotrifluoride, benzal fluoride, and benzyl fluoride derivatives: coupling mechanisms. T. Schaefer, W. Niemczura, C.-M. Wong, and K. Marat, 807.

In-plane and out-of-plane conformational preferences of the sulfhydryl group in some halothiophenol derivatives. T. Schaefer and W.J.E. Parr, 1421.

Schaefer, T.

Solvent-induced changes in ²J(H,F) for fluoroform via van der Waals interactions. Non-contact contributions to spin-spin coupling constants involving a proton? T. Schaefer, H.M. Hutton, and S.R. Salman, 1877.

Schaefer, T.

Derivatives of diphenylmethane. Preferred conformations and barriers to internal rotation by the J method. T. Schaefer, W. Niemezura, W. Danchura, and T.A. Wildman, 1881.

Schaefer, T.

The allyl and benzyl groups as hydrogen bond acceptors in derivatives of 2-allylphenol and 2-benzylphenol. T. Schaefer, R. Sebastian, and T.A. Wildman, 3005.

Scheffer, J.R.

Photochemical ring expansion of a bridged cyclobutanone. Crystal and molecular structure of the photoproduct acetal. T.J. Greenhough, J.R. Scheffer, J. Trotter, and L. Walsh, 2669.

Scheuer, P.J.

Pseudozoanthoxanthins from gold coral. R.E. Schwartz, M.B. Yunker, P.J. Scheuer, and T. Ottersen, 1707.

Schifman, A.L.

The synthesis of oligoribonucleotides. III. The use of silyl protecting groups in nucleoside and nucleotide chemistry. VIII. K.K. Ogilvie, A.L. Schifman, and C.L. Penney, 2230.

Schlegel, H.B.

Molecular orbitals from group orbitals. IX. the problem of hybrid lone pairs. D. Kost, H.B. Schlegel, D.J. Mitchell, and S. Wolfe, 779

Schmid, P.

Cyclization of the 4-cyanobutyl radical. D. Griller, P. Schmid, and K.U. Ingold, 831.

The crystal and molecular structure of 1,4-diphenyl-2.2',3,3',5,5',6,6'-octamethylcyclo-1,4-diphospha-2,3,5,6-tetrasilahexane, a phosphorus-silicon heterocycle. A.W. Cordes, P.F. Schubert, and R.T. Oakley, 174.

Schutte, P.M.

Pyridazino[3,4,5-de]phthalazines. I. Synthesis of the heterocyclic system and key intermediates. J.E. Francis, K.J. Doebel, P.M. Schutte, E.C. Savarese, S.E. Hopkins, and E.F. Bachmann, 3320.

Pseudozoanthoxanthins from gold coral. R.E. Schwartz, M.B. Yunker, P.J. Scheuer, and T. Ottersen, 1707.

Scott, D.G.

Stereocontrolled Diels-Alder reactions with a bifunctional dienophile. M. Kakushima and D.G. Scott, 1399.

¹³C and ¹H nuclear magnetic resonance spectroscopy of C-19 and 6 β -methyl substituted steroids: long-range shift effects in conformational analysis. K.N. Scott and T.H. Mareci, 27.

Scott, P.W.

The reactions of arenesulphonyl azides with tetrahydropyrido[1,2-a]indoles and the X-ray crystallographic structure determination of a resultant novel zwitterion, 1,2,3,4-tetrahydro-10-methyl-4a-p-tolylsulphonylaminopyrido[1,2-a]indole. T.S. Cameron, R.E. Cordes, A. Terzis, A.S. Bailey, and P.W. Scott, 558.

Sebastian, R.

The allyl and benzyl groups as hydrogen bond acceptors in derivatives of 2-allylphenol and 2-benzylphenol. T. Schaefer, R. Sebastian, and T.A. Wildman, 3005.

Secco, E.A.

Phase transformation studies on K₂Cr₂O₂. M. Natarajan and E.A. Secco, 2703.

Seddon, W.A.

Flash photolysis of alkali metal anions in tetrahydrofuran and dimethoxyethane. W.A. Seddon, J.W. Fletcher, F.C. Sopchyshyn, and E.B. Selkirk, 1792.

Selkirk, E.B.

Flash photolysis of alkali metal anions in tetrahydrofuran and dimethoxyethane. W.A. Seddon, J.W. Fletcher, F.C. Sopchyshyn, and E.B. Selkirk, 1792.

Sellan, J.B.

Double layer structure at the mercury/dimethylformamide interface. W.R. Fawcett, B.M. Ikeda, and J.B. Sellan, 2268.

Selwyn, J.

Stereochemical analysis of *exo*-methylenebenzocycloalkanes: evidence from carbon-13 nuclear magnetic resonance chemical shifts, ¹³C-1³C nuclear spin couplings, and force field calculations. G.W. Buchanan, J. Selwyn, and B.A. Dawson, 3028.

Serianni, A.S.

Isotopically-enriched carbohydrates: The preparation of [2H]-enriched aldoses by catalytic hydrogenolysis of cyanohydrins with ²H₂. A.S. Serianni and R. Barker, 3160.

Serrier, J.

Vibrations de réseau de quelques dérivés dihalogénés du benzène. J. Serrier, F. Brehat, B. Wyncke et A. Hadni, 1814.

Shahidi, F.

Partial molal volumes of organic compounds in carbon tetrachloride. IV. Ketones, alcohols, and ethers. J.T. Edward, P.G. Farrell, and F. Shahidi, 2585.

Shahidi, F.

Effect of solvent (benzene, ethanol, cyclohexane) on the partial molal volumes of organic compounds. J.T. Edward, P.G. Farrell, and F. Shahidi, 2887.

Shahidi, F.

Partial molal volumes of organic compounds in carbon tetrachloride. V. Cyclic alkanes, ethers, alcohols, ketones, and bromides. J.T. Edward, P.G. Farrell, and F. Shahidi, 2892.

Sham, T.K.

Stereochemistry of six coordinate organotin(IV) compounds with bidentate ligands. J.S. Tse, T.K. Sham, and G.M. Bancroft, 2223.

Shamma, M.

Berberidie acid. P. Chinnasamy and M. Shamma, 1647.

Sharma, A.K.

Kinetics of ion exchange of some complex cations on chromium ferrocyanide gel. I.P. Saraswat, S.K. Srivastava, and A.K. Sharma, 1214.

Sharma, B.R.

Thermodynamics of chloroform and methanol mixtures. P.P. Singh, B.R. Sharma, and K.S. Sidhu, 387.

Sharma, B.R.

Excess volumes of β -picoline and γ -picoline mixtures with some n-alcohols at 308.15 K. P.P. Singh, B.R. Sharma, and P.C. Chopra, 2386.

Sharma, S.C.

Synthesis, reactions, and nuclear magnetic resonance spectroscopy of 4-methyl-6*H*-pyrazolo(3,4-b)azepin-7-ones. S.C. Sharma and B.M. Lynch, 3034.

Shiloff, J.D.

Solvent effects on the photocycloaddition and photoenolisation reactions of isophorone. J.D. Shiloff and N.R. Hunter, 3301.

Shindo, Y.

On the syntheses and the optical properties of optically active 2-pyrazoline compounds. M. Mukai, T. Miura, M. Nanbu, T. Yoneda, and Y. Shindo, 360.

Shukla, J.P.

Molecular and group relaxation studies in parasubstituted benzenes in various media. J. Crossley, J.P. Shukla, S.P. Tay, M.S. Walker, and S. Walker, 2843.

Shurvell, H.F.

On the planarity of the NSi₃ skeleton in the trisilylamine molecule. A normal coordinate analysis involving complex symmetry coordinates. H.F. Shurvell, A. Dunham, S.J. Cyvin, and J. Brunvoll, 1779.

Shurvell, H.F.

Factor analysis as a complement to band resolution techniques. VI. Complex formation between pentachlorophenol-OD and acetone. J. Korppi-Tommola and H.F. Shurvell, 2707.

Sidhu K S

Thermodynamics of chloroform and methanol mixtures. P.P. Singh, B.R. Sharma, and K.S. Sidhu, 387.

Sigurdson, E.R.

Chemical and microbiological remote functionalisation of (+)- and (-)-bornyl acetate. M.S. Allen, N. Darby, P. Salisbury, E.R. Sigurdson, and T. Money, 733.

Simmons, O.D.

Carbon-13 nuclear magnetic resonance spectroscopy of phorbol. M. Neeman and O.D. Simmons, 2071.

Singh, K.

Claisen rearrangement of allyloxyanthraquinones. C.M. Wong, R. Singh, K. Singh, and H.Y.P. Lam, 3304.

Singh, K.C.

Thermodynamics of molecular interactions in aniline - benzene mixtures. R.K. Nigam, P.P. Singh, and K.C. Singh, 2211.

Singh, M.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Singh, P.P.

Thermodynamics of chloroform and methanol mixtures. P.P. Singh, B.R. Sharma, and K.S. Sidhu, 387.

Singh, P.P.

Structural studies on di- μ -thiocyanato(N,S)-bis(ligand)diisothiocyanato metal(Π)bis(triphenylphosphine)mercury(Π) and selenocyanate analogs. P.P. Singh and S.P. Yadav, 394.

Singh, P.P.

Thermodynamics of molecular interactions in aniline - benzene mixtures. R.K. Nigam, P.P. Singh, and K.C. Singh, 2211.

Singh, P.P.

Excess volumes of β -picoline and γ -picoline mixtures with some n-alcohols at 308.15 K. P.P. Singh, B.R. Sharma, and P.C. Chopra, 2386.

Singh, P.P.

Apparent molar heat capacities and volumes of aqueous electrolytes at 25°C: Cr(NO₃)₃, LaCl₃, K₃Fe(CN)₆, and K₄Fe(CN)₆. J.J. Spitzer, I.V. Olofsson, P.P. Singh, and L.G. Hepler, 2798.

Singh, P.P.

Structure of Ni[Ag(SCN)₂]₂ • 2diox and its derivatives. P.P. Singh, S.A. Khan, and J.P. Pandey, 3061.

Singh, R.

Claisen rearrangement of allyloxyanthraquinones. C.M. Wong, R. Singh, K. Singh, and H.Y.P. Lam, 3304.

Singleton, D.L.

Temperature dependence of rate constants for reaction of oxygen atoms, O(3P), with allene and 1,3-butadiene. W.S. Nip, D.L. Singleton, and R.J. Cvetanović, 949.

Skiles, J.W.

Splendidine, a new oxoaporphine alkaloid from Abuta rufescens Aublet. J.W. Skiles, J.M. Saa, and M.P. Cava, 1642.

Slade, S.F.

Etude empirique de la stabilité des hydrocarbures polycycliques non alternants. J.P. Gastmans, D.F. Gastmans et S.F. Slade, 2864.

Slater, G.P.

The mass spectra of trifluoroacetyl-2,5-diketopiperazines. I. cyclo-(-Gly-X), cyclo-(-Ala-X) (X = Gly, Val, Leu, Ile), and cyclo-(-Ala-Ala). G.P. Slater and L.R. Hogge, 2037.

Slater, G.P.

The mass spectra of trifluoroacetyl-2,5-diketopiperazines. II. cyclo-(-Val-Val/Leu/Ile), cyclo-(-Leu-Leu/Ile), and cyclo-(-Ile-Ile). G.P. Slater and L.R. Hogge, 2052.

Slemon, C.E.

Stereochemical equilibration of the lithium derivatives of 1,2-diols. C.E. Slemon and P. Yates, 304.

Slessor, K.N.

Facile syntheses of the enantiomers of sulcatol. B.D. Johnston and K.N. Slessor, 233.

CI delle

The synthesis of peptides related to a conserved sequence found in histone H-1 and H-5. Their ability to act as substrates and inhibitors of exogeneous protein kinases. S.L. Kielland, P. Mathiaparanam, L.A. Slotin, and R.E. Williams, 267.

The fin

The fine structure of the Kolmogoroff-Avrami theorem. A. Smith and S. Fletcher, 1304.

Smith, C.R.

The excess acidity method. The basicities, and rates and mechanisms of enolization, of some acetophenones and acetone, in moderately concentrated sulfuric acid. R.A. Cox, C.R. Smith, and K. Yates, 2952.

Smith, D.G.

An unusual carbomethoxyl migration from nitrogen to carbon. Formation of a 2*H*-pyrrole from AlCl₃-promoted reaction of 1-carbomethoxy-2,5-dimethylpyrrole with dimethyl acetylenedicarboxylate. R.A.F. Matheson, A.W. McCulloch, A.G. McInnes, and D.G. Smith, 2743.

Smith, D.G.

The biosynthesis of caerulomycin A in *Streptomyces caeruleus*. Incorporation of ¹⁴C- and ¹³C-labeled precursors and analyses of labeling patterns by ¹³C nmr. A.G. McInnes, D.G. Smith, J.A. Walter, L.C. Vining, and J.L.C. Wright, 3200.

Smith, G.F.

An approach to the synthesis of quadrigemine-A. P.K. Battey, D.L. Crookes, and G.F. Smith, 1694.

Smith, J.N.

Chemical reaction in electric discharge. V. Reaction kinetics in a low frequency modulated discharge. J.N. Smith, M.D. Costa, and J.M. Deckers, 785.

Smith, L.M.

Studies on the mass spectrometry of some acyclic nuclear substituted styryl ketoximes and ketones with special reference to the ortho effect. P.J. Smith, C.B. Nyathi, J.R. Dimmock, and L.M. Smith, 2908.

Smith, P.J.

Studies on the mass spectrometry of some acyclic nuclear substituted styryl ketoximes and ketones with special reference to the *ortho* effect. P.J. Smith, C.B. Nyathi, J.R. Dimmock, and L.M. Smith, 2908.

Snider, N.

Bound complex and triple collision mechanisms for diatom dissociation and recombination. N. Snider, 1167.

Snieckus, V.

A convergent route to phthalideisoquinoline alkaloids via directed metalation of tertiary benzamides. S.O. de Silva, I. Ahmad, and V. Snieckus, 1598.

Snyder, R.W.

Generation of aminyl and aminium radicals by photolysis of *N*-nitrodialkylamines in solution. Y.L. Chow, H. Richard, R.W. Snyder, and R.W. Lockhart, 2936.

So. K.H.

Fluoride ion promoted synthesis of alkyl phenylethers. J.M. Miller, K.H. So, and J.H. Clark, 1887.

So. K.-H.

Hydrogen bond assisted reactions: C- and O-alkylations, sulphenylations, and Michael additions aided by polymer immobilized fluoride ion. J.M. Miller, S.R. Cater, K.-H. So, and J.H. Clark, 2629.

So. Y.H.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

So, Y.H.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Sólimo, H.N.

Excess properties of cumene + p-dioxane system at 30°C. H.N. Sólimo, S. del V. Alonso, and M. Katz, 678.

Somani, R

The hydrolysis of coumarin diethyl acetal and the lactonization of coumarinic acid ethyl ester. The partitioning of tetrahedral intermediates generated from independent sources. R.A. McClelland, R. Somani, and A.J. Kresge, 2260.

Sood, R.S.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289.

Sopchyshyn, F.C.

Flash photolysis of alkali metal anions in tetrahydrofuran and dimethoxyethane. W.A. Seddon, J.W. Fletcher, F.C. Sopchyshyn, and E.B. Selkirk, 1792.

Soucy, P.

Thermal decomposition of ozonides. A complementary method to the Baeyer–Villiger oxidation of hindered ketones. R. Lapalme, H.-J. Borschberg, P. Soucy, and P. Deslongchamps, 3272.

Soucy, P.

Total synthesis of ryanodol. A. Bélanger, D.J.F. Berney, H.-J. Borschberg, R. Brousseau, A. Doutheau, R. Durand, H. Katayama, R. Lapalme, D.M. Leturc, C.-C. Liao, F.N. MacLachlan, J.-P. Maffrand, F. Marazza, R. Martino, C. Moreau, L. Saint-Laurent, R. Saintonge, P. Soucy, L. Ruest, and P. Deslongchamps, 3348.

Spalding, E.S.

Sulfides as precursors for sulfonyl chloride synthesis. R.F. Langler, Z.A. Marini, and E.S. Spalding, 3193.

Spenser, I.D

The biosynthesis of the Lythraceae alkaloids. I. The lysine-derived fragment. R.N. Gupta, P. Horsewood, S.H. Koo, and I.D. Spenser, 1606.

Spenser, I.D.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Spitzer, J.J

Apparent molar heat capacities and volumes of aqueous electrolytes at 25°C: Cr(NO₃)₃, LaCl₃, K₃Fe(CN)₆, and K₄Fe(CN)₆. J.J. Spitzer, I.V. Olofsson, P.P. Singh, and L.G.Hepler, 2798.

Sporns, P.

Nucleic acid related compounds. 29. Thionyl chloride reactions with adenine nucleosides. Course of nucleophilic displacements and a preferential route to the 2'-chloro-arabino isomer. M.J. Robins, P. Sporns, and W. H. Muhs, 274.

Sreenivasulu, M.

Excess volumes for binary liquid mixtures of butylamine with aromatic and aliphatic hydrocarbons. A. Krishnaiah, M. Sreenivasulu, and P.R. Naidu, 1915.

Srinivasan, R.

Rate-acidity profiles for exchange of the 4-methyl protons in amino, imino, and keto pyrimidines. R. Stewart, S.J. Gumbley, and R. Srinivasan, 2783.

Srivastava, S.K.

Kinetics of ion exchange of some complex cations on chromium ferrocyanide gel. 1.P. Saraswat, S.K. Srivastava, and A.K. Sharma, 1214.

Stadler, P.A.

Isolation of ergovaline, ergoptine, and ergonine, new alkaloids of the peptide type, from ergot sclerotia. R. Brunner, P.L. Stütz, H. Tscherter, and P.A. Stadler, 1638.

Steele, B.R

Nucleophilic reactions of zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations. C.C. Lee, B.R. Steele, K.J. Demchuk, and R.G. Sutherland, 946.

Steiner, P.R.

C-Stannane derivatives of carbohydrates. L.D. Hall, P.R. Steiner, and D.C. Miller, 38.

Stewart, R.

Rate-acidity profiles for exchange of the 4-methyl protons in amino, imino, and keto pyrimidines. R. Stewart, S.J. Gumbley, and R. Srinivasan, 2783.

Stilbs, P.

A study of 14N relaxation and nitrogen-proton spin coupling in Watson-Crick base pair models through Fourier transform measurements of NH proton spin-lattice relaxation in the rotating frame. M.E. Moseley and P. Stilbs, 1075.

Correlation of the photoelectron and electronic spectra of thiochromones and thiochromanones with their electrochemical data. R.O. Loutfy, I.W.J. Still, M. Thompson, and T.S. Leong, 638.

Stillman, M.J.

Absorption and magnetic circular dichroism spectra of metal-free phthalocyanine in ultraviolet-transparent solvents. K.A. Martin and M.J. Stillman, 1111.

Stojanac, N.

A synthetic approach to quassin. Synthesis of a ring A seco derivative. N. Stojanac, Z. Stojanac, P.S. White, and Z. Valenta, 3346.

Stojanac, Z.

Total synthesis of steroids. Part 1. Ring A aromatic compounds. Regiocontrol in diene additions with 6-methoxy-1-vinyl-3,4dihydronaphthalene. J. Das, R. Kubela, G.A. MacAlpine, Z. Stojanac, and Z. Valenta, 3308.

Stojanac, Z.

A synthetic approach to quassin. Synthesis of a ring A seco derivative. N. Stojanac, P.S. White, and Z. Valenta, 3346.

Stonard, R.J.

Clionamide, a major metabolite of the sponge Cliona celata Grant. R.J. Andersen and R.J. Stonard, 2325.

Storr, A.

Complexes of the methyl tris(3,5-dimethylpyrazol-1-yl) gallate ligand, MeGa(N2C5H7)3, and its hydroxy derivative, $MeGa(N_2C_5H_7)_3(OH)^-$. Crystal and molecular structure of $[MeGa(N_2C_5H_7)_3(OH)]Mo(CO)_2(\eta^3-C_4H_7)$. K.R. Breakell, S.J. Rettig, A. Storr, and J. Trotter, 139.

Molybdenum, tungsten, and manganese carbonyl compounds incorporating novel tridentate chelating dimethyl (1-pyrazolyl) (ethanolamino)gallate ligands. K.S. Chong and A. Storr, 167.

Storr, A.

Synthesis and crystal and molecular structure of ethanolaminogallium dimethyl, H2NCH2CH2O · GaMe2. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 586.

Crystal and molecular structure of (η³-2-methylallyl)[dimethyl(ethanolamino) (3,5-dimethyl-1-pyrazolyl)gallato(N-(2),N(3),O)]dicarbonylmolybdenum, $[Me_3Ga(N_2C_5H_7)(OCH_2CH_2NH_2)]Mo(CO)_2(\eta^3-C_4H_7)$. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 1335.

Storr, A.

Crystal and molecular structure of bis[methyltris(1-pyrazolyl)gallato]nickel(II). S.J.Rettig, A. Storr, and J. Trotter, 1823.

Storr, A.

Neutral pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3090.

Storr, A.

Anionic pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3099.

Storr, A.

Reactions of Ni(NO)I with pyrazolyl gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)-(OCH, CH, NMe,) Ni(NO). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3107.

Store, A.

Five-coordinate iron and manganese dinitrosyl complexes incorporating tridentate chelating dimethyl(N,N-dimethylethanolamino)(pyrazolyl)gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NMe₂)]Fe(NO)₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3113.

Storr. A.

Synthesis and structure of 3,5-dimethylpyrazolyl iron and cobalt dinitrosyl dimers. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3119.

Stothers, J.B.

¹³C nuclear magnetic resonance studies. 81. Conformational inversion barriers of some cis-decalins determined by ¹³C nuclear magnetic resonance. L.M. Browne, R.E. Klinck, and J.B. Stothers, 803.

Stothers, J.B.

¹³C nuclear magnetic resonance studies, 85, ¹³C spectra of several ring-contracted and -expanded steroids. V. Dave and J.B. Stothers, 1550.

Stothers, J.B.

Ring expansion of cyclic ketones: The reliable determination of migration ratios for 3-keto steroids by 13C nuclear magnetic resonance and the general implications thereof. V. Dave, J.B. Stothers, and E.W. Warnhoff, 1557.

Stütz, P.L.

Isolation of ergovaline, ergoptine, and ergonine, new alkaloids of the peptide type, from ergot sclerotia. R. Brunner, P.L. Stütz, H. Tscherter, and P.A. Stadler, 1638.

A spectrophotometric study of the complex formation between cobalt(III) and trans-1,2-cyclohexanedinitrilotetraacetic acid (CyDTA). R.K. Hessley, S. Waykole, and R.L. Sublett, 2292.

Conformational dissymmetry. Circular dichroism of amino acid and peptide complexes. E.A. Sullivan, 62.

Sullivan, F.A. Sullivan, E.A.

Circular dichroism of palladium(II) and platinum(II) diamine complexes. E.A. Sullivan, 67.

Sum, F.-W.

Stereoselective synthesis of β -substituted α, β -unsaturated esters by dialkylcuprate coupling to the enol phosphate of β -keto esters. F.-W. Sum and L. Weiler, 1431.

Sum, F.-W.

Erratum: Stereoselective synthesis of β -substituted α , β -unsaturated esters by dialkylcuprate coupling to the enol phosphate of β-keto esters. F.-W. Sum and L. Weiler, 2895.

Sum. P.-E.

Synthesis of exo- and endo-brevicomin and frontalin. P.-E. Sum and L. Weiler, 1475.

Sunder, S.

Polymorphism of crystalline tert-butyl chloride- d_0 and tert-butyl chloride- d_0 : a Raman spectroscopic study. S. Sunder, 846.

Sutherland, R.G.

Hydrogenation during ligand exchange reactions between ferrocene and pyrene. C.C. Lee, K.J. Demchuk, and R.G. Sutherland, 933.

Sutherland, R.G.

Nucleophilic reactions of zwitterionic species from deprotonation of η^6 -arene- η^5 -cyclopentadienyliron cations. C.C. Lee, B.R. Steele, K.J. Demchuk, and R.G. Sutherland, 946.

Studies on the syntheses of heterocyclic compounds. Part 782. Another total synthesis of (±)-tubulosine and (±)deoxytubulosine. T. Kametani, Y. Suzuki, and M. Ihara, 1679.

A nuclear magnetic resonance study of pyridoxal phosphate - metal ion interactions. II. Binding of manganese(II). T.S. Viswanathan and T.J. Swift, 1050.

Szarek, W.A.

Synthesis related to the octodiose in apramycin. Part III. H.C. Jarrell and W.A. Szarek, 924.

Szczerek, I.

The photoinitiated isomerization and addition reactions of liquid 2-butenes in the presence of hydrogen sulfide. F.-X. Garneau and I. Szczerek, 2991.

Reactions at the nitrogen atoms in azafluorene systems. K. Kloc, J. Młochowski, and Z. Szulc, 1506.

Szychowski, J.

The total synthesis of (±)-luciduline. J. Szychowski and D.B. MacLean, 1631.

Szydlowski, J.

Hydrogen bonding and vapor pressure isotope effect of ethanethiol. J. Szydlowski and H. Wolff, 1350.

Taillefer, R.J.

An isokinetic relationship in the oxidation of acetals by ozone. Evidence for rotation before the oxidation of acyclic acetals. R.J. Taillefer, S.E. Thomas, Y. Nadeau, and H. Beierbeck, 3041.

Hydrolysis of cyclic unsymmetrical anti imidate salts. New evidence for stereoelectronic control. P. Deslongchamps, U.O. Cheriyan, and R.J. Taillefer, 3262.

Tait, J.C.

Organometallic peroxy radicals. Part 5. Trialkylsilylperoxy and trialkylstannylperoxy radicals. J.A. Howard, J.C. Tait, and S.B. Tong, 2761.

Tam, T.F.

A synthetic route to 4-C-methyl-xylo-furanose. T.F. Tam and B. Fraser-Reid, 2818.

Electron spin resonance of Mn2+ impurity ions in MoO₃-pumice catalyst. K.C. Khulbe, R.S. Mann, N. Tan, and A. Manoogian, 2779.

Tanaka, M.

Dichotomous reactions of thioketones with tetracarbonylferrate. H. Alper, B. Marchand, and M. Tanaka, 598.

Tang. S.-Y.

Mass spectrometry of some furanocoumarins. S.-Y. Tang, J.C. McGowan, M. Singh, P. Galatsis, B.E. Ellis, R.K. Boyd, and S.A. Brown, 1995.

Tang, W.-P.

Cycloadditions and other chemistry of 4-oxygenated pyrazoles. P.J. Fagan, E.E. Neidert, M.J. Nye, M.J. O'Hare, and W.-P. Tang, 904.

Taniélian, C.

Influence de différents catalyseurs à base d'élements de transition du groupe VIII sur la polymérisation du norbornène. C. Taniélian, A. Kiennemann et T. Osparpucu, 2022.

Polar radicals XIII. A reinvestigation of the polar effects reported for the hydrogen transfer reactions of the 1-ethylpentyl radical. D.D. Tanner, R. Henriquez, and D.W. Reed, 2578.

Tanner, S.D.

Gas-phase proton-transfer reactions of the hydronium ion at 298 K. G.I. Mackay, S.D. Tanner, A.C. Hopkinson, and D.K. Bohme, 1518.

A room-temperature study of the kinetics of protonation of formaldehyde. S.D. Tanner, G.I. Mackay, and D.K. Bohme, 2350.

Polymerisation of the 3-halogenomethyl-5-methyl(or 5-phenyl)-3'(5')-methyl-1,5'(3')-dipyrazolylmethane. Synthesis of new macrocyclic systems. A. Fruchier, A. Ramdani, and G. Tarrago, 1897.

Tay, S.P.

Molecular and group relaxation studies in parasubstituted benzenes in various media. J. Crossley, J.P. Shukla, S.P. Tay, M.S. Walker, and S. Walker, 2843.

Taylor, P.

The preparation and crystal structure of pentaiodinium hexafluoroantimonate(V) containing I₁₅3+. J. Passmore, P. Taylor, T. Whidden, and P.S. White, 968.

Taylor, W.G.

Preparation of two metabolites of isometheptene. W.G. Taylor and R.T. Coutts, 2103.

Teather, G.G.

A study of trapped electrons in LiCl/D₂O and other aqueous glasses at temperatures down to 2 K by radiolysis, photolysis, and stimulated tominescence. N.V. Klassen, G.G. Teather, and F. Kieffer, 1488.

Tee, O.S.

Mechanisms of bromination of uracil derivatives. 4. Formation of adducts in acidic aqueous solutions and their dehydration to 5-bromouracils. O.S. Tee and S. Banerjee, 626.

Temerk, Y.M.

Studies on the absorption and the association of cytidine sulphate at the dropping mercury electrode with phase-sensitive acpolarography. Y.M. Temerk, 1136.

Terzis, A.

The reactions of arenesulphonyl azides with tetrahydropyrido[1,2-a]indoles and the X-ray crystallographic structure determination of a resultant novel zwitterion, 1,2,3,4-tetrahydro-10-methyl-4a-p-tolylsulphonylaminopyrido[1,2-a]indole. T.S. Cameron, R.E. Cordes, A. Terzis, A.S. Bailey, and P.W. Scott, 558.

Terris. A.

Crystal structures of medium ring compounds. Part III. The crystal and molecular structure of *trans-anti-trans*-4,5:9,10-biscyclohexano-1,3,6,8-tetraoxecane. A. Terzis and T. B. Grindley, 2154.

Tewari, P.H.

Dissolution of iron during the initial corrosion of carbon steel in aqueous H₂S solutions. P.H. Tewari and A.B. Campbell, 188.

Thaisrivongs, S.

The generation of C-glycosides through the enolate Claisen rearrangement. R.E. Ireland, C.S. Wilcox, S. Thaisrivongs, and N.R. Vanier, 1743.

Thé, K.I.

Solution structures of dimeric methylpyrazolyl and indazolyl dimethyl-derivatives of boron, gallium, and indium from ¹H nuclear magnetic resonance data. L.K. Peterson and K.I. Thé, 2520.

Theriault, N.Y.

The synthesis of oligoribonucleotides V. The stepwise synthesis of the 3'-terminal heptanucleotide sequence of tRNA^{tMet} from E. coli. K.K. Ogilvie and N.Y. Theriault, 3140.

Thimm, H.F.

Kinetics and mechanism of decarboxylation of some pyridinecarboxylic acids in aqueous solution. III. 3-Hydroxy- and 3-aminopyridine-2-carboxylic acids. G.E. Dunn, H.F. Thimm, and R.K. Mohanty, 1098.

Thomas, E.M.

¹³C nuclear magnetic resonance spectra of some halosteroids, 6-ketosteroids, and related compounds. H.L. Holland and E.M. Thomas, 3069.

Thomas, S.E.

An isokinetic relationship in the oxidation of acetals by ozone. Evidence for rotation before the oxidation of acyclic acetals. R.J. Taillefer, S.E. Thomas, Y. Nadeau, and H. Beierbeck, 3041.

Thompson, D.M.

The crystal and molecular structure of a compound containing a novel ring system: (*E*)-6-(bromomethylene)-5,6-dihydro-4,4-dimethyl-2-phenyl-4*H*-1,3,4-oxadiazinium bromide. D.M. Thompson, I.D. Brindle, and M.F. Richardson, 3157.

Thompson, J.C.

Reactions of silicon fluorides with some non-metal hydrides. J.C. Thompson and A.P.G. Wright, 994.

Thompson, L.K.

Complexes of substituted benzothiazoles. 1. Cobalt(II), copper(II), and zinc(II) complexes of 2,2'-o-phenylenebisbenzothiazole: a potential N or S donor ligand. J.C.T. Rendell and L.K. Thompson, 1.

Thompson, M.

Correlation of the photoelectron and electronic spectra of thiochromones and thiochromanones with their electrochemical data. R.O. Loutfy, I.W.J. Still, M. Thompson, and T.S. Leong, 638.

Thompson, R.C.

The molecular and crystal structure of tetrakis (4-methylpyridine) cobalt (II) hexafluorophosphate. R.M. Morrison, R.C. Thompson, and J. Trotter, 135.

Thompson, Y.

Salt desorption from surfaces of non-aqueous solvents. R. Aveyard and Y. Thompson, 856.

Fimmins, G.

Acid-catalysed cleavage of 4-halonortricyclenes in deuterated medium; evidence that the norbornyl cation is an unsymmetrical species. N.H. Werstiuk, D. Dhanoa and G. Timmins, 2885.

Tin. K.-C.

α. β-Epoxy sulfoxides and sulfones. Synthesis and some reactions. T. Durst, K.-C. Tin, F. de Reinach-Hirtzbach, J.M. Decesare, and M.D. Ryan, 258.

Tökés, L.

Synthesis of 1,3-dihydro-2*H*-benzo-1,4-diazepin-2-ones and 1,2-dihydropyrazin-2-ones via iminophosphoranes. Mass spectra of 1,5-disubstituted-1,2-dihydropyrazin-2-ones. J. Ackrell, E. Galeazzi, J.M. Muchowski, and L. Tökés, 2696.

Toma, H.E.

Ion association and charge-transfer excitation between N-heterocyclic cations and cyanoiron complexes. H.E. Toma, 2079.

Tong, S.B.

Absolute rate constants for hydrocarbon autoxidation. 27. On the question of a reversible rate controlling propagation reaction. J.A. Howard and S.B. Tong, 2755.

Tong, S.B.

Organometallic peroxy radicals. Part 5. Trialkylsilylperoxy and trialkylstannylperoxy radicals. J.A. Howard, J.C. Tait, and S.B. Tong, 2761.

Tori, M.

A new type of *Lycopodium* alkaloid. The $C_{30}N_3$ alkaloids from *Lycopodium lucidulum*. W.A. Ayer, L.M. Browne, Y. Nakahara, M. Tori, and L.T.J. Delbaere, 1105.

Tracev. A.S.

Studies in membrane processes. VIII. A deuterium and sodium nuclear magnetic resonance investigation into the hexadecylpyridinium/hexadecyltrimethylammonium liquid crystalline system. L.W. Reeves, A.S. Tracey, and M.M. Tracey, 747.

Tracey, M.M.

Studies in membrane processes. VIII. A deuterium and sodium nuclear magnetic resonance investigation into the hexadecylpyridinium/hexadecyltrimethylammonium liquid crystalline system. L.W. Reeves, A.S. Tracey, and M.M. Tracey, 747.

Tranqui, D.

Crystal structure of dichlorobis (1-methylcytosine) cadmium (II). C. Gagnon, A.L. Beauchamp, and D. Tranqui, 1372.

Trenholm, J.E.

The consequences of steric effects in the cleavage step of the sulfohaloform reaction. D.G. Kay, R.F. Langler, and J.E. Trenholm, 2185.

Tribe, J.

Structures and properties of mixtures of branched chain compounds and lecithin: phytol, α-tocopherol (vitamin E), and phytanic acid. R.J. Cushley, B.J. Forrest, A. Gillis, and J. Tribe, 458.

Trigo, G.G.

Stereochemistry of the Bucherer-Bergs and Strecker reactions of tropinone, cis-bicyclo[3,3,0]octan-3-one and cis-3,4-dimethylcyclopentanone. G.G. Trigo, C. Avendaño, E. Santos, J.T. Edward, and S.C. Wong, 1456.

Trotter, J.

The molecular and crystal structure of tetrakis(4-methylpyridine)cobalt(II) hexafluorophosphate. R.M. Morrison, R.C. Thompson, and J. Trotter, 135.

Trotter, J.

Complexes of the methyl tris(3,5-dimethylpyrazol-1-yl) gallate ligand, $MeGa(N_2C_5H_7)_3^-$, and its hydroxy derivative, $MeGa(N_2C_5H_7)_2(OH)^-$. Crystal and molecular structure of $[MeGa(N_2C_5H_7)_2(OH)]Mo(CO)_2(\eta^3-C_4H_7)$. K.R. Breakell, S.J. Rettig, A. Storr, and J. Trotter, 139.

Trotter, J.

Synthesis and crystal and molecular structure of ethanolaminogallium dimethyl, H₂NCH₂CH₂O • GaMe₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 586.

Trotter, J.

Erratum: Crystal and molecular structures of 2,2,4,4,6,8,8-heptamethyl-6-methylamino-1,3,5-triaza-2,4,6,8(P^v)-tetraphosphorin and 2,2,4,4,6,8,8-heptamethyl-6-methylamino-7-benzoyl-1,3,5-triaza-2,4,6,8(P^v)-tetraphosphorin. H.P. Calhoun, R.T. Oakley, N.L. Paddock, S.J. Rettig, and J. Trotter, 1273.

Trotter, J.

Crystal and molecular structure of $(\eta^3$ -2-methylallyl)[dimethyl(ethanolamino) (3,5-dimethyl-1-pyrazolyl)gallato(N-(2),N(3),O)]dicarbonylmolybdenum, [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NH₂)]Mo(CO)₂(η^3 -C₄H₇). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 1335.

Trotter, J.

The crystal and molecular structure of *cis*-dichloro(2,2'-o-phenylenebisbenzothiazole) copper(II). R.G. Ball and J. Trotter, 1368. **Trotter**, J.

Crystal and molecular structure of bis[methyltris(1-pyrazolyl)gallato]nickel(II). S.J.Rettig, A. Storr, and J. Trotter, 1823.

Trotter, J.

X-ray crystallographic study of Ni(II)bis(morpholine-N-carbodithioate) and epr studies of Cu(II) bis(morpholine-N-carbodithioate) and Cu(II)bis(pyrrolidine-N-carbodithioate). F.G. Herring, J.M. Park, S.J. Rettig, and J. Trotter, 2379.

Trotter, J.

Photochemical ring expansion of a bridged cyclobutanone. Crystal and molecular structure of the photoproduct acetal. T.J. Greenhough, J.R. Scheffer, J. Trotter, and L. Walsh, 2669.

Trotter, J.

Neutral pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3090.

Trotter, J.

Anionic pyrazolyl-bridged nickel nitrosyl complexes. Synthesis, structure, and reactivity. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3099.

Trotter, J.

Reactions of Ni(NO)I with pyrazolyl gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)-(OCH₂CH₂NMe₂)]Ni(NO). K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3107.

Trotter, J.

Five-coordinate iron and manganese dinitrosyl complexes incorporating tridentate chelating dimethyl(N,N-dimethylethanolamino)(pyrazolyl)gallate ligands: crystal and molecular structure of [Me₂Ga(N₂C₅H₇)(OCH₂CH₂NMe₂)]Fe(NO)₂. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3113.

Trotter, J.

Synthesis and structure of 3,5-dimethylpyrazolyl iron and cobalt dinitrosyl dimers. K.S. Chong, S.J. Rettig, A. Storr, and J. Trotter, 3119.

Trudell, B.C.

The ultraviolet photoelectron spectra of C_0F_5X compounds, $X = (F,Cl, Br, I, H, CH_3)$. B.C. Trudell and S.J.W. Price, 2256.

Tsai, T.Y.R.

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Isang, A.Y.M.

The crystal and molecular structure of benzil bisthiosemicarbazonatocopper(II) and the antitumour mechanism of related compounds. G.W. Bushnell and A.Y.M. Tsang, 603.

Tscherter, H.

Isolation of ergovaline, ergoptine, and ergonine, new alkaloids of the peptide type, from ergot selerotia. R. Brunner, P.L. Stütz, H. Tscherter, and P.A. Stadler, 1638.

Tse, A.

Application of photoelectron spectroscopy to substituent effects. Conformational analysis of some flexible allylic ethers and alcohols. R.S. Brown, R.W. Marcinko, and A. Tse, 1890.

Ise, J.S

Stereochemistry of six coordinate organotin(IV) compounds with bidentate ligands. J.S. Tse, T.K. Sham, and G.M. Bancroft, 2223.

Tsiamis, C.L.

Syntheses and spectroscopic study of a new series of mixed-ligand complexes of As(III) and Sb(III) with dithio-ligands. F.M-N. Kheiri, C.A. Tsipis, C.L. Tsiamis, and G.E. Manoussakis, 767.

Tsipis, C.A.

Syntheses and spectroscopic study of a new series of mixed-ligand complexes of As(III) and Sb(III) with dithio-ligands. F.M-N. Kheiri, C.A. Tsipis, C.L. Tsiamis, and G.E. Manoussakis, 767.

Tsui, S.-K.

Pyrrolidine- and piperidine-alkanoic acid hydrochlorides. Synthesis by hydrogenation of pyrrolyl ester and pyridine-alkanoic acid hydrochlorides. S.-K. Tsui and J.D. Wood, 1977.

Tuchagues, J.-P.

Etude chimique et spectroscopique du système B(SCH₃)₃-B(NCS)₃. H.-R. Atchekzai, H. Mongeot, J. Dazord et J.-P. Tuchagues, 1122.

Tuck, D.G.

The electrochemical synthesis of some heteronuclear metal carbonyls. J.J. Habeeb, D.G. Tuck, and S. Zhandire, 2, 96.

Tulshian, D.B.

Stereoselective routes to some unsaturated α - and β -C-glycopyranosides. B. Fraser-Reid, R.D. Dawe, and D.B. Tulshian, 1746. Turner, M.L.

Studies of β -diketone complexes of rhenium. IX. The preparation and characterization of salts of the *trans*-dihalobis (pentane-2,4-dionato)-rhenium(III). C.J.L. Lock, C.N. Murphy, and M.L. Turner, 1252.

Tvaroška, I.

Lone pair interactions in dimethoxymethane and anomeric effect. I. Tvaroška and T. Bleha, 424.

Ujjainwalla, M

Chemoselectivity in the synthesis of thiocyanates and isothiocyanates: the reaction of alkenes with benzeneselenenyl thiocyanate in methylene chloride. D.G. Garratt, M.D. Ryan, and M. Ujjainwalla, 2145.

Umemura, J.

The correlation between O—H stretching frequencies and hydrogen bond distances in a crystalline sugar monohydrate. J. Umemura, G.I. Birnbaum, D.R. Bundle, W.F. Murphy, H.J. Bernstein, and H.H. Mantsch, 2640.

Uzan, R.

Réduction catalytique de cétones α , β -éthyléniques à température modérée par RhH(P ϕ_3)₄. D. Beaupere, P. Bauer et R. Uzan, 218.

Vail, L.G.M.C.

The dual role of the coinitiator in the cationic polymerization of isobutene. K.E. Russell and L.G.M.C. Vail, 2355.

Valenta, Z.

Total synthesis of 14β-hydroxy-4,9(11)-androstadiene-3,17-dione. A.R. Daniewski, P.S. White, and Z. Valenta, 1397.

Valenta, Z.

Total synthesis of steroids. Part 1. Ring A aromatic compounds. Regiocontrol in diene additions with 6-methoxy-1-vinyl-3,4-dihydronaphthalene. J. Das, R. Kubela, G.A. MacAlpine, Z. Stojanac, and Z. Valenta, 3308.

Valenta, Z.

A synthetic approach to quassin. Synthesis of a ring A seco derivative. N. Stojanac, Z. Stojanac, P.S. White, and Z. Valenta, 3346. Valenta, Z.

Total synthesis of (\pm) -5 β , 8α -androst-9(11)-ene-3,17-dione. M. Kakushima, L. Allain, R.A. Dickinson, P.S. White, and Z. Valenta, 3354.

Valenta, Z.

Total synthesis of androstanes. M. Kakushima, J. Das, G.R. Reid, P.S. White, and Z. Valenta, 3356.

Valenti. V

Relation entre pression interne et température de fusion. L'entropie volumique de fusion. G. Berchiesi, M.A. Berchiesi, G. Vitali et V. Valenti, 2010.

Valeriote, E.M.L.

The application of DPASV to the determination of the low temperature solubility of lead sulphate in sulphuric acid solutions. E.M.L. Valeriote, L.D. Gallop, and P.J. Aragon, 974.

van Gheluwe, P.

Chemistry of phenoxo complexes. VI. Reactions of phenoxocopper(1) complexes with carbon tetrachloride. J.F. Harrod and P. van Gheluwe, 890.

Vanier, N.R.

The generation of C-glycosides through the enolate Claisen rearrangement. R.E. Ireland, C.S. Wilcox, S. Thaisrivongs, and N.R. Vanier, 1743.

Vanin, J.A.

Micellar super-structure in magnetically aligned lyotropic liquid crystals studied by light scattering. P.C. Isolani, L.W. Reeves, and J.A. Vanin, 1108.

van Leusen, A.M.

Carbon-13 nuclear magnetic resonance spectra of oxazoles. H. Hiemstra, H.A. Houwing, O. Possel, and A.M. van Leusen, 3168.

Van Meerssche, M.

Megastachine, a new alkaloid from Lycopodium megastachyum. J.-C. Braekman, C. Hootele, N. Miller, J.-P. Declercq, G. Germain, and M. Van Meerssche, 1691.

Varlet, J.-M.

Synthèse et amination réductrice de phosphonopyruvates: préparation d'acides amino-2 carboxy-2 alkylphosphoniques (β-phosphonoalanine). J.-M. Varlet, N. Collignon, et P. Savignac, 3216,

Vasudevan, K.

An *ab initio* and ion cyclotron resonance study of the protonation of borazine. C.E. Doiron, F. Grein, T.B. McMahon, and K. Vasudevan, 1751.

Vaultier, M

Les oxazolines-4 précurseurs de sels d'iminium fonctionnels. Ouverture en milieu anhydre de ces hétérocycles par des acides protoniques: obtention de sels d'iminium fonctionnels, étude de leur structure. M. Vaultier, G. Mullick et R. Carrié, 2876.

Velkof, S

9-Oxobenzomorphans. I. General syntheses of dihydrobenz[e]indolines as key intermediates. G. Kavadias, S. Velkof, and B. Belleau, 1852.

Velkof, S.

9-Oxobenzomorphans. II. A versatile process for the synthesis of 9-oxo-6,7-benzomorphans. G. Kavadias, S. Velkof, and B. Belleau, 1861.

Velkof, S

9-Oxobenzomorphans. III. Synthesis of derivatives with various substituents at 2-,2'-, and 5-positions. G. Kavadias, S. Velkof, and B. Belleau, 1866.

Vessière, R.

Synthèse et réactivité des halogéno-2 sulfonyl-2 aziridines. J.-M. Gaillot, Y. Gelas-Mialhe et R. Vissière, 1958.

Identi

Identification des configurations relatives d'alcools secondaires α -cyclopropylidéniques et α -vinyleyclopropaniques. Attribution de structure aux éthyl-6 diméthyl-2,4 oxa-3 bicyclo[3.1.01.5]hexanes. M. Vincens, C. Dumont et M. Vidal, 2314.

Vilchez, J.L.

Contribution to the solution chemistry and polarographic behaviour of anthrapurpurin complexan. F. Capitan, A. Guiraum, J.L. Vilchez, and J.F. Arenas, 3243.

Vincens, M

Identification des configurations relatives d'alcools secondaires α -cyclopropylidéniques et α -vinylcyclopropaniques. Attribution de structure aux éthyl-6 diméthyl-2,4 oxa-3 bicyclo[3.1.0].5]hexanes. M. Vincens, C. Dumont et M. Vidal, 2314.

Vincent, E.-J.

Structure et réactivité des benzoxazoles: étude par résonance magnétique nucléaire du carbone-13. J. Llinares, J.-P. Galy, R. Faure, E.-J. Vincent et J. Elguero, 937.

Vining, L.C.

The biosynthesis of caerulomycin A in *Streptomyces caeruleus*. Incorporation of ¹⁴C- and ¹³C-labeled precursors and analyses of labeling patterns by ¹³C nmr. A.G. McInnes, D.G. Smith, J.A. Walter, L.C. Vining, and J.L.C. Wright, 3200.

Viswanathan, T.S.

A nuclear magnetic resonance study of pyridoxal phosphate – metal ion interactions. II. Binding of manganese(II). T.S. Viswanathan and T.J. Swift, 1050.

Vitali G

Relation entre pression interne et température de fusion. L'entropie volumique de fusion. G. Berchiesi, M.A. Berchiesi, G. Vitali et V. Valenti, 2010.

Wada, T.

Density and temperature effects on electron mobilities in gaseous butene isomers. T. Wada and G.R. Freeman, 2716.

Walker, M.S.

Molecular and group relaxation studies in parasubstituted benzenes in various media. J. Crossley, J.P. Shukla, S.P. Tay, M.S. Walker, and S. Walker, 2843.

Walker, S.

Molecular and group relaxation studies in parasubstituted benzenes in various media. J. Crossley, J.P. Shukla, S.P. Tay, M.S. Walker, and S. Walker, 2843.

Wallace, R.

Vibrational theory of polyatomic molecules: energy levels of CH₄/CD₄ and CH₃Cl/CD₃Cl. J. Bron and R. Wallace, 2321.

Walsh, L

Photochemical ring expansion of a bridged cyclobutanone. Crystal and molecular structure of the photoproduct acetal. T.J. Greenhough, J.R. Scheffer, J. Trotter, and L. Walsh, 2669.

Walter, J.A

Hydrogen-deuterium exchange in tetrahydroborate salts. I.A. Oxton, A.G. McInnes, and J.A. Walter, 503.

Walter, J.A.

The biosynthesis of caerulomycin A in *Streptomyces caeruleus*. Incorporation of ¹⁴C- and ¹³C-labeled precursors and analyses of labeling patterns by ¹³C nmr. A.G. McInnes, D.G. Smith, J.A. Walter, L.C. Vining, and J.L.C. Wright, 3200.

Wan, J.K.S.

Electron spin resonance observations of photochemically generated contact ammonium ion-pairs of fluoro-substituted ketones. K.S. Chen, T. Foster, and J.K.S. Wan, 600.

Wan, J.K.S.

Time-resolved CIDEP in the photoreduction of quinones. A study of the spin lattice relaxation time of semiquinone radicals in solution. J.W.M. deBoer, T.Y.C.C. Chung, and J.K.S. Wan, 2971.

Warkentin, J.

Ketone or diazoalkane formation from Δ^3 -1,3,4-oxadiazolin-2-ones. Details of two competing thermolysis mechanisms. A.J. Paine and J. Warkentin, 2681.

Warnhoff, E.W.

Ring expansion of cyclic ketones: The reliable determination of migration ratios for 3-keto steroids by ¹³C nuclear magnetic resonance and the general implications thereof. V. Dave, J.B. Stothers, and E.W. Warnhoff, 1557.

Wasylishen, R.E.

A carbon-13 nuclear magnetic resonance study of benzyl cyanide. R.E. Wasylishen and B.A. Pettitt, 1274.

Wasylishen, R.E.

Conformational preferences of the *syn*-pyridinecarboxaldehyde oximes. W. Danchura, R.E. Wasylishen, J. Delikatny, and M.R. Graham, 2135.

Watson, K.N.

The formation and interconversion of oxazines and dioxazines from the reaction of nitrosocarbonyl compounds with cyclopentadienes. L.H. Dao, J.M. Dust, D. Mackay, and K.N. Watson, 1712.

Waykole, S.

A spectrophotometric study of the complex formation between cobalt(III) and *trans*-1,2-cyclohexanedinitrilotetraacetic acid (CyDTA). R.K. Hessley, S. Waykole, and R.L. Sublett, 2292.

Wayman, M.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part I. Composition and molecular weight distribution of extracted autohydrolysis lignin. M.G.S. Chua and M. Wayman, 1141.

Wayman, M.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 2. Alkaline nitrobenzene oxidation studies of extracted autohydrolysis lignin. M. Wayman and M.G.S. Chua, 2599.

Wayman, M.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 3. Infrared and ultraviolet studies of extracted autohydrolysis lignin. M.G.S. Chua and M. Wayman, 2603.

Wayman, M.

Characterization of autohydrolysis aspen (*P. tremuloides*) lignins. Part 4. Residual autohydrolysis lignin. M. Wayman and M.G.S. Chua, 2612.

Weber, J.H.

Complexation of cadmium(II) with water- and soil-derived fulvie acids: effect of pH and fulvic acid concentration. R.A. Saar and J.H. Weber, 1263.

Weber, U.

Rearrangement studies with ¹⁴C. XLIII. The acetolysis of trianisyl[2-14C]vinyl bromide. C.C. Lee, U. Weber, and C.A. Obafemi, 1384.

Weiler, L.

Stereoselective synthesis of β -substituted α, β - unsaturated esters by dialkylcuprate coupling to the enol phosphate of β -keto esters. F.-W. Sum and L. Weiler, 1431.

Weiler, L

Synthesis of exo- and endo-brevicomin and frontalin. P.-E. Sum and L. Weiler, 1475.

Weiler, L.

Erratum: Stereoselective synthesis of β -substituted α , β -unsaturated esters by dialkylcuprate coupling to the enol phosphate of β -keto esters. F.-W. Sum and L. Weiler, 2895.

Werbelow, L.G.

Nuclear magnetic resonance reorientational correlation functions: the odd-valued spectral components. C.E.M. Fouques and L.G. Werbelow, 2329.

Werner, M.

The reaction products of *N*-alkylquinoxalines with 7,7,8,8-tetracyanoquinodimethane. H.J. Keller, D. Nöthe, and M. Werner, 1033.

Werstiuk, N.H.

Acid-catalysed cleavage of 4-halonortricyclenes in deuterated medium; evidence that the norbornyl cation is an unsymmetrical species. N.H. Werstiuk, D. Dhanoa and G. Timmins, 2885.

West, R.

The crystal and molecular structure of the molybdenum tetracarbonyl complex of 1,4-diphenyl-2,2',3,3',5,5',6,6'-octamethylcyclo-1, 4-diphospha-2,3,5,6-tetrasilahexane. J.C. Calabrese, R.T. Oakley, and R. West, 1909.

Westaway, K.C.

Isotope effects in nucleophilic substitution reactions. II. Secondary α -deuterium kinetic isotope effects: a criterion of mechanism? K.C. Westaway and S.F. Ali, 1089.

Westaway, K.C.

Isotope effects in nucleophilic substitution reactions. III. The effect of changing the leaving group on transition state structure in $S_N 2$ reactions. K.C. Westaway and S.F. Ali, 1354.

Westland, A.D.

Thermochemistry of tantalum(V) bromide. A.D. Westland, 2665.

Westwood, N.P.C.

The photoelectron spectra of the methylbromamines and unsubstituted bromamines. D. Colbourne, D.C. Frost, C.A. McDowell, and N.P.C. Westwood, 1279.

Whalley, E.

Raman spectra of single-crystal and liquid s-trioxane. M. Nakahara, P.T.T. Wong, and E. Whalley, 711.

Whalley, E.

Effect of pressure on the Raman spectrum of s-trioxane I and II. M. Nakahara, P.T.T. Wong, G.J. Lewis, and E. Whalley, 2869.

Whidden, T.

The preparation and crystal structure of pentaiodinium hexafluoroantimonate(V) containing I₁₅3+. J. Passmore, P. Taylor, T. Whidden, and P.S. White, 968.

White, P.S.

The preparation and crystal structure of pentaiodinium hexafluoroantimonate(V) containing I₁₅3+. J. Passmore, P. Taylor, T. Whidden, and P.S. White, 968.

White, P.S.

Total synthesis of 14β-hydroxy-4,9(11)-androstadiene-3,17-dione. A.R. Daniewski, P.S. White, and Z. Valenta, 1397.

White, P.S.

A synthetic approach to quassin. Synthesis of a ring A seco derivative. N. Stojanac, Z. Stojanac, P.S. White, and Z. Valenta, 3346.

White, P.S.

Total synthesis of (\pm) -5 β ,8 α -androst-9(11)-ene-3,17-dione. M. Kakushima, L. Allain, R.A. Dickinson, P.S. White, and Z. Valenta, 3354.

White, P.S.

Total synthesis of androstanes. M. Kakushima, J. Das, G.R. Reid, P.S. White, and Z. Valenta, 3356.

Viesner, K

A new synthesis of chasmanine and 13-desoxydelphonine: a preferred route to the aromatic intermediate. T.Y.R. Tsai, K.P. Nambiar, D. Krikorian, M. Botta, R. Marini-Bettolo, and K. Wiesner, 2124.

Wigfield, D.C.

Intramolecular alkylation of α , β -unsaturated ketones: a study of the effect of substrate structure and experimental conditions on the site of alkylation. E. Piers, M. Zbozny, and D.C. Wigfield, 1064.

Wilcox, C.S.

The generation of *C*-glycosides through the enolate Claisen rearrangement. R.E. Ireland, C.S. Wilcox, S. Thaisrivongs, and N.R. Vanier, 1743.

Wildman, T.A.

Comparison of the intramolecular hydrogen bonds and of the internal barrier to rotation of the hydroxyl and sulfhydryl groups in 2-methoxyphenol and 2-methoxythiophenol. T. Schaefer and T.A. Wildman, 450.

Wildman, T.A

Derivatives of diphenylmethane. Preferred conformations and barriers to internal rotation by the *J* method. T. Schaefer, W. Niemczura, W. Danchura, and T.A. Wildman, 1881.

Wildman, T.A.

The allyl and benzyl groups as hydrogen bond acceptors in derivatives of 2-allylphenol and 2-benzylphenol. T. Schaefer, R. Sebastian, and T.A. Wildman, 3005.

Viles, D.M.

The thermal decomposition of 1-(2'-cyano-2'-propoxy)-4-oxo-2,2.6.6-tetramethylpiperidine. D.W. Grattan, D.J. Carlsson, J.A. Howard, and D.M. Wiles, 2834.

Williams, R.E.

The synthesis of peptides related to a conserved sequence found in histone H-1 and H-5. Their ability to act as substrates and inhibitors of exogeneous protein kinases. S.L. Kielland, P. Mathiaparanam, L.A. Slotin, and R.E. Williams, 267.

Willis, C.

Decomposition of vinyl chloride induced by multiphoton absorption of infrared radiation. I. Decomposition yields. A. Gandini, C. Willis, R.A. Back, and J.M. Parsons, 953.

Willis, C.

Infrared laser induced decomposition of pentafluoroacetone. M. Drouin, P.A. Hackett, C. Willis, and M. Gauthier, 3053.

Willie C

Infrared multiphoton chemistry of fluoroform-d. M. Gauthier, R. Pilon, P.A. Hackett, and C. Willis, 3173.

Wojtkowiak, B.

Substituent and solvent effects on Lewis acidity of *p*-substituted anilines: symmetry of interactions. G. Launay, B. Wojtkowiak, and T.M. Krygowski, 3065.

Wolfe, S.

Molecular orbitals from group orbitals. IX. the problem of hybrid lone pairs. D. Kost, H.B. Schlegel, D.J. Mitchell, and S. Wolfe, 729.

Wolfe, S.

Total synthesis of δ -(1- α -aminoadipyl)-1-cysteinyl-D-valine (ACV), a biosynthetic precursor of penicillins and cephalosporins. S. Wolfe and M.G. Jokinen. 1388.

Stereochemical aspects of the Pummerer reaction. Regioselectivity as a criterion for the differentiation of ylide and E2 pathways in the product-determining step of the reactions of benzyl methyl halo- and oxysulfonium cations. S. Wolfe and P.M. Kazmaier, 2388.

Wolfe, S.

Stereochemical aspects of the Pummerer reaction. Diastereotopic selectivity in the deprotonation of oxysulfonium cations. S. Wolfe and P.M. Kazmaier, 2397.

Wolfe, S.

On the relationships between 18O-transfer, diastereotopic selectivity, and asymmetric induction in an intramolecular Pummerer reaction. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2404.

Wolfe, S.

Cyclization of cysteinylglycine sulfoxides under Pummerer reaction conditions. S. Wolfe, P.M. Kazmaier, and H. Auksi, 2412.

Wolff, H.

Hydrogen bonding and vapor pressure isotope effect of ethanethiol. J. Szydlowski and H. Wolff, 1350.

Wolkoff, P.

Isomeric cyclic [C₆H₁₀]+*ions. The energy barrier to ring opening. P. Wolkoff and J.L. Holmes, 348.

Wollenweber, E.

Dihydroxy-4'.5 tétraméthoxy-2',3,7,8 flavone, et hydroxy-5 pentaméthoxy-2',3,4',7,8 flavone, deux nouveaux composés naturels isolés de Notholaena affinis (Ptéridophytes). M. Jay, J. Favre-Bonvin et E. Wollenweber, 1901.

Mass spectra of bis(trimethylsilyl)- and bis(trimethylgermyl)carbodiimide. J.E. Drake, B.M. Glavinčevski, H.E. Henderson, and C. Wong, 1162.

Wong, C.-M.

Spin-spin coupling constants between side-chain and ring fluorine nuclei in some benzotrifluoride, benzal fluoride, and benzyl fluoride derivatives: coupling mechanisms. T. Schaefer, W. Niemczura, C.-M. Wong, and K. Marat, 807.

Wong, C.M.

Claisen rearrangement of allyloxyanthraquinones. C.M. Wong, R. Singh, K. Singh, and H.Y.P. Lam, 3304.

Wong, P.C.

Electronic excited states of small ring compounds. VII. Bicyclo[2.1.0]pentanes by the photocycloaddition of 1,2,3-triphenyleyclopropene to fumaro- and maleonitrile. P.C. Wong and D.R. Arnold, 1037.

Wong, P.C.

The oxidation potentials of cis- and trans-1,2-diphenylcyclopropane and cis- and trans-2,3-diphenyloxirane. D.R. Arnold and P.C. Wong, 2098.

Wong, P.T.T.

Raman spectra of single-crystal and liquid s-trioxane. M. Nakahara, P.T.T. Wong, and E. Whalley, 711.

Effect of pressure on the Raman spectrum of s-trioxane I and II. M. Nakahara, P.T.T. Wong, G.J. Lewis, and E. Whalley, 2869. Wong, S.C.

Stereochemistry of the Bucherer-Bergs and Strecker reactions of tropinone, cis-bicyclo[3.3.0]octan-3-one and cis-3,4dimethylcyclopentanone. G.G. Trigo, C. Avendaño, E. Santos, J.T. Edward, and S.C. Wong, 1456.

Acidity function 'failure.' I. 2-Thiohydantoins. J.T. Edward and S.C. Wong, 1980.

Wong-Ng, W.

The crystal and molecular structure of 6,7-bis(methoxycarbonyloxy)-1,2,3,4- tetrahydroisoquinoline-[1,2-c]-oxazol-2-one-[3,4-b]-1-chloro-3-methoxycarbonyloxy-6,7-methylenedioxyindane. W. Wong-Ng and S.C. Nyburg, 157.

Pyrrolidine- and piperidine-alkanoic acid hydrochlorides. Synthesis by hydrogenation of pyrrolyl ester and pyridine-alkanoic acid hydrochlorides. S.-K. Tsui and J.D. Wood, 1977.

Worth, B.R.

Dihydropyridines in synthesis and biosynthesis. I. Secodine and precursors of dehydrosecodine. J.P. Kutney, R.A. Badger, J.F. Beck, H. Bosshardt, F.S. Matough, V.E. Ridaura-Sanz, Y.H. So, R.S. Sood, and B.R. Worth, 289,

Worth, B.R.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Worth, B.R.

Total synthesis of indole and dihydroindole alkaloids. XVII. The total synthesis of catharine and vinamidine (catharinine). J.P. Kutney, J. Balsevich, and B.R. Worth, 1682.

Worth, B.R.

The chemistry of thujone. II. Insect juvenile hormone analogues via acid dianion coupling. The β lactone route. J.P. Kutney, M.J. McGrath, R.N. Young, and B.R. Worth, 3145.

Wright, A.P.G.

Reactions of silicon fluorides with some non-metal hydrides. J.C. Thompson and A.P.G. Wright, 994.

Wright, J.L.C.

The occurrence of ergosterol and (22E,24R)-24-ethylcholesta-5,7,22-trien-3 β -ol in the unicellular chlorophyte Dunaliella tertiolecta. J.L.C. Wright, 2569.

Wright, J.L.C.

The biosynthesis of caerulomycin A in *Streptomyces caeruleus*. Incorporation of ¹⁴C- and ¹³C-labeled precursors and analyses of labeling patterns by ¹³C nmr. A.G. McInnes, D.G. Smith, J.A. Walter, L.C. Vining, and J.L.C. Wright, 3200.

Wrobel, J.T.

The biosynthesis of the Lythraceae alkaloids. II. The phenylalanine-derived fragments. P. Horsewood, W.M. Golebiewski, J.T. Wrobel, I.D. Spenser, J.F. Cohen, and F. Comer, 1615.

Wyncke, B.

Vibrations de réseau de quelques dérivés dihalogénés du benzène. J. Serrier, F. Brehat, B. Wyncke et A. Hadni, 1814.

Yadav, S.P.

Structural studies on di- μ -thiocyanato(N,S)-bis(ligand)diisothiocyanato metal(II)bis(triphenylphosphine)mercury(II) and selenocyanate analogs. P.P. Singh and S.P. Yadav, 394.

Yamamoto, I.

Thermal decomposition of diazirines in the presence of *m*-chloroperoxybenzoic acid. A method to determine the partitioning of reaction pathways. M.T.H. Liu and I. Yamamoto, 1299.

Yates, K.

Kinetic equations for reactions in concentrated aqueous acids based on the concept of "excess acidity". R.A. Cox and K. Yates, 2944.

Yates, K.

The excess acidity method. The basicities, and rates and mechanisms of enolization, of some acetophenones and acetone, in moderately concentrated sulfuric acid. R.A. Cox, C.R. Smith, and K. Yates, 2952.

Yates, K.

The hydrolyses of some sterically crowded benzoate esters in sulfuric acid. The excess acidity method at different temperatures. R.A. Cox, M.F. Goldman, and K. Yates, 2960.

Yates, P.

Stereochemical equilibration of the lithium derivatives of 1,2-diols. C.E. Slemon and P. Yates, 304.

Yates, P.

Aliphatic diazo compounds. XII. The synthesis of 5-endo-hetero-atom-substituted 3-diazo-2-norbornanones and the proton magnetic resonance spectra of these diazo ketones and their precursors. P. Yates and G.F. Hambly, 1656.

Vates. P.

Aliphatic diazo compounds. XIII. The copper-catalyzed decomposition of 5-endo-hetero-atom-substituted 3-diazo-2-norbornanones. P. Yates and G.F. Hambly, 1668.

Yates, P.

The synthesis of bicyclo[2.2.2]octenones via intramolecular Diels-Alder reactions of modified Wessely oxidation products. P. Yates and H. Auksi, 2853.

Yau, A.W.

Perturbed normal-mode analysis of induction times, relaxation times, and reaction rates in unimolecular reactions. A.W. Yau and H.O. Pritchard, 1723.

Yau, A.W.

Unimolecular reactions of N2O and CO2 at high pressure. A.W. Yau and H.O. Pritchard, 1731.

Yau, A.W.

On the reliability of the inversion of the Arrhenius rate law. A.W. Yau and H.O. Pritchard, 2458.

Vin. R.W

The interaction between the excited triplet state of ketones and olefins: the role of triplet exciplexes. R.O. Loutfy, S.D. Dogra, and R.W. Yip, 342.

oneda, T.

On the syntheses and the optical properties of optically active 2-pyrazoline compounds. M. Mukai, T. Miura, M. Nanbu, T. Yoneda, and Y. Shindo, 360.

Young, R.N.

The chemistry of thujone. II. Insect juvenile hormone analogues via acid dianion coupling. The β lactone route. J.P. Kutney, M.J. McGrath, R.N. Young, and B.R. Worth, 3145.

Yuan, D.

The kinetics and mechanisms of the gas phase pyrolyses of *exo*-2-norbornyl chloride and cyclopentyl chloride. J.L. Holmes, D.L. McGillivray, and D. Yuan, 2621.

Yunker, M.B.

Pseudozoanthoxanthins from gold coral. R.E. Schwartz, M.B. Yunker, P.J. Scheuer, and T. Ottersen, 1707.

Vvernault, T.

Etude des mobilités ioniques dans les mélanges eau-hexaméthylphosphotriamide (HMPT) à 25°C. II. Application de la théorie de Zwanzig au comportement des ions monovalents. J.-Y. Gal, C. Laville, F. Persin, M. Persin, J.-C. Bollinger et T. Yvernault, 1127.

Zador, M.

Cinétique de la formation de métalloporphyrine Cu(II)—dérivé tétra éthylènediamino de la protoporphyrine IX (ENP) en milieu aqueux. G. Paquette et M. Zador, 2916.

Zamboni, R.

β-Lactams. VII. The synthesis of 3-vinyl and 3-isopropenyl 4-substituted azetidinones. R. Zamboni and G. Just, 1945.

Zanarotti, A.

Dihydropyridines in synthesis and biosynthesis. II. Stable tricarbonylchromium(0) complexes. J.P. Kutney, R.A. Badger, W.R. Cullen, R. Greenhouse, M. Noda, V.E. Ridaura-Sanz, Y.H. So, A. Zanarotti, and B.R. Worth, 300.

Zhozny, M.

Intramolecular alkylation of α , β -unsaturated ketones: a study of the effect of substrate structure and experimental conditions on the site of alkylation. E. Piers, M. Zbozny, and D.C. Wigfield, 1064.

Zbozny, M.

Intramolecular alkylation of α , β -unsaturated ketones: a total synthesis of (\pm)-isolongifolene and an approach to the synthesis of zizaane-type sesquiterpenoids. E. Piers and M. Zbozny, 2249.

Zhandire, S

The electrochemical synthesis of some heteronuclear metal carbonyls. J.J. Habeeb, D.G. Tuck, and S. Zhandire, 2196.

Zuccarello, F.

Excited state properties of nitrobenzene derivatives. G. Buemi, S. Millefiori, F. Zuccarello, and A. Millefiori, 2167.

Zuliani, P.A.

Chemical reactions in glow discharges. IV. Production and removal of oxygen atoms in the de glow discharge. M.D. Costa, P.A. Zuliani, and J.M. Deckers, 568.

Zundel, G.

Polarizable acid-acid and acid-water hydrogen bonds with H₃PO₂, H₃PO₄, and H₃AsO₄. M. Leuchs and G. Zundel, 487.

CANADIAN JOURNAL OF CHEMISTRY

JOURNAL CANADIEN DE CHIMIE

VOLUME 57, 1979

Subject Index / Index des matières

A ring arom steroid regioselective prepn 3308 Abs configuration nojigiku alc 742 Absorption optical lithium chloride glass 1758 Absorption spectra furan tetracyanoethylene complex Abstraction hydrogen deoxybenzoin photolysis 2812
Abstraction hydrogen toluene ethyl 3178
Abstraction toluene ethylpentyl LFER 2578
Abstraction toluene ethylpentyl LFER 2578 Abuta oxoaporphine alkaloid 1642 Acenaphthylene dimerization dioxetane energized 283 Acetal ethyl coumarin hydrolysis kinetics 2260 Acetal hydrolysis excess acidity 2944 Acetal oxidn ozone isokinetic temp 3041 Acetaldehyde protonation rate 1518
Acetanilide tributylnitroso decompn radical 2172 Acetate electrochem oxidn methylation ethene 990 Acetate formate dissocn protonation 2996 Acetate mercury phosphine Raman IR 83 Acetate potassium aq elec cond 673 Acetate vinyl electrochem trifluoromethylation 2617 Acetato mercury phosphine complex 91 Acetic acid protonation rate 1518 Acetic acid solvation fluoromethoxide 473 Acetolysis trianisylvinyl bromide scrambling 1384 Acetone basicity enolization excess acidity Acetone hydrogen fluoride vibration 1341 Acetone pentachlorophenol complex IR 2707 Acetone pentafluoro laser decompn 3053 Acetone protonation rate 1518 Acetone reaction aminodeoxyglucoside 2978 Acetonitrile heat soln sulfur dioxide 1319 Acetonitrile tetraphenyl carbon thermodn transfer Acetophenone basicity enolization excess acidity 2952

Acetoxydecarboxylation cyclohexanecarboxylic acid stereochem 1257

stereocnem 1257
Acetoxydihydronomilin Xylocarpus 3088
Acetyl group enolization 1177
Acetylacetonatocopper photolysis sensitized ketone 8
Acetylation pyrazolol 904
Acetylene insertion platinum iodide bond 2549
Acetylenedicarboxylate reaction pyrrolecarboxylate
rearrangement 2743
Acetylenedicarboxylate thiophenecylidenethiazolo 200

Acetylenedicarboxylate thiophenacylidenethiazole 207 Acid catalysis coumarin acetal hydrolysis 2260

Acid chloride aminonitropyridine animal 1153 Acid keto enolization equil 1177

Acid protonated heat formation 3205 Acid water hydrogen bond IR 487 Acidity alc detn 2747 Acidity aniline LFER 3065 Acidity enol keto tautomer 1177

Acidity excess enolization mechanism 2952

Acidity excess reaction kinetics 2944 Acidity function thiohydantoin 1980 Actylate Diels Alder furylbenzamide 314
Acrylonitrile cyanoguanidine cycloaddn 2593
Acryloyl chloride cycloaddn Schiff base 1945
Activation vicinal hydrogen bromobutane 2484

Activity aq lithium chloride 2542 Acyclic styryl ketoxime mass spectra 2908 Acyl chloride reaction thallium hydroxysuccinimide

Acylation copper salt alkylphosphonate 3216 Acylation lithiopyridobenzothiazine 2371 Acylium ion formation 2827

Acylium reaction water mass spectra 3205 Acyloxyditin 160

Adamantylcarboxylate potassium aq cond 673 Addn benzeneselenenyl thiocyanate olefin 2145 Addn benzeneselenenyl thiocyanate phenylpropene

Addn galactal azide nitrate 1244 Addn isoprene cyclohexadienone 377
Addn nitrobenzenesulfenyl chloride allene 119 Addn nitrosyl chloride stereochem 2923

Addn photochem butene hydrogen sulfide 2991 Addn photochem nitramine cyclohexene 2936 Adenine nucleoside chlorination thionyl chloride 274 Adenosine chlorination thionyl chloride 274

Adenosine monophosphate self assocn thermodn 1986 Adipic acid amino cystine peptide 1388 Adose carbon hydrogen labeled 3160

Adsorption cytidine polarog 1136 Adsorption DMF mercury electrode capacitance 2268 Adsorption TBP interface dodecane water 1218

Adsorption tetraethylammonium bromide mercury electrode 330 Agarospirol synthesis 1579

Aglycone anthraquinone 3304 Alanine phosphono 3216 Alaninesulfinic acid redn mercaptoethanol 2073

Alc acidity detn 2747

Alc allyl reactivity solvated electron 839
Alc allylic photoelectron 1890
Alc aq halide viscosity 3247
Alc dehydrogenase deriv specificity kinetics 2533
Alc noisility the configuration 749

Alc nojigiku abs configuration 742 Alc oxidn diaxial interaction 2848 Alc partial molal vol 2585 2892 Alc picoline vol mixing 2386

Alc reaction triazoledione 2727 Alc solvated electron 591 Aldehyde detn degree enolization 797 Aldehyde enolization thermodn 240

Aldehyde four component cyclocondensation peptide isonitrile 3257

Aldol condensation furanose formaldehyde 381

Aldononitrile hydrogenolysis 3160
Aldononitrile hydrogenolysis 3160
Aldoxime pyridine conformation 2135
Alkali halide DMSO soln model 538
Alkali halide soln viscosity 3247

Alkali halide volumetric entropy melting 2010 Alkali ialide volumetric entropy melting 2010 Alkali ion free energy transfer 2476 Alkali metal anion flash photolysis 1792 Alkali metal mercury DMF capacitance 2268 Alkali metal sulfite structure 899

Alkali phenylmethanide ion pair ether 999 Alkali salt cond aq hexametapol 1127

Alkali tetrahydroborate hydrogen deuterium exchange

Alkaloid ergot Claviceps 1638

Alkaloid formation Lythraceae phenylalanine 1615 Alkaloid indole oxidn 1682

Alkaloid isoquinoline formation path 1588 Alkaloid megastachine Lycopodium structure 1691

Alkaloid synthesis intermediate structure 157

Alkane alkylamine heat mixing 517 Alkane asym isomer chromatog 367

Alkane partial molal vol 2887 Alkanol partial molal vol 2887

Alkene quenching ketone triplet 342 Alkene xylenol oxidn intramol cycloaddn 2853

Alkenylbenzocyclobutane 1462

Alkoxide phenoxide nucleophilicity 2747

Alkoxide pinetolide interespinate phosphine 1903 Alkyl phenyl ether 1887 Alkylamine alkane heat mixing 517 Alkylammonium salt cond aq hexametapol 1127 Alkylation catalyst immobilized fluoride 2629

Alkylation imidazolethione 813

Alkylation intramol alkylnaphthalenone 1064

Alkylation phenol tetraethylammonium fluoride 1887

Alkylation tosyloxymethyltetralone 2249

Alkylphenol chlorination 552

Alkylphosphonate copper salt acylation 3216 Allal Claisen Eschenmoser rearrangement 1746 Allene addn nitrobenzenesulfenyl chloride 119

Allene reaction kinetics ground oxygen 949

Allopyranoside stannane deriv 38

Allyl alc reactivity solvated electron 839 Allyl isocyanide thermal isomerization 2482

Allyl metal carbonyl methylpyrazolylaminoethanolatog= allate 167

Allyl molybdenum ethanolaminogallato carbonyl struc= ture 1335

Allyl molybdenum tungsten methylpyrazolylgallate

Allyl oxo system 3292

Allyl phenol hydrogen bond 3005 Allylation nucleophile 2790

Allylic alc ether photoelectron 1890 Allyliron complex reaction nucleophile 2790

Allyloxy Claisen rearrangement 3304 Allylphenol conformation NMR 3005

Amalgam ion lead electrochem chronopotentiometry 1801

Amide haloalkyl cyclization 1201

Amide vinyl rotation barrier NMR 2239

Amidogen Rydberg state potential energy 3182 Amination reductive phosphonopyruvate 3216

Amine butyl hydrocarbon vol mixing 1915 Amine imide cyclization bromination 3155

Amine radiolysis solvated electron 2013 Amine reaction triazoledione 2727

Aminium radical formation reaction 2936 Amino acid palladium platinum CD 62

Amino acid stereoselectivity nickel macrocycle 883

Aminoadipic acid cysteine peptide 1388

Aminoadipylcysteinylvaline 1388 Aminocyclitol 1870

Aminodeoxyglucoside reaction acetone 2978

Aminodeoxyglycopyranose tetrasaccharide synthesis

Aminoethanolato iron nitrosyl pyrazolylgallato struc= ture 3113

Aminoethanolato molybdenum allyl crystal structure

Aminonitropyridine acid chloride animal 1153

Aminophenol structure NMR 937 Aminyl radical formation reaction 2936

Ammine cobalt cation exchange 1214

Ammonia deprotonation formaldehyde cation rate

Ammonia laser photolysis nitrogen enrichment correction 796

Ammonia pyrolysis shock tube 689 Ammonium benzyl substitution thiophenoxide 1089

Ammonium fluoroketone ESR 600

Ammonium halide IR hydrogen bond 2003

Ammonium halide IR hydrogen bonding 404 Ammonium phthalocyanine absorption magnetic CD

Ammonium quaternary mercury DMF capacitance

Ammonolysis hydrolysis EDTA kinetics 1018

Analgesic aminotetrahydropyridine deriv 2981

Analgesic pyrazoloazepinone 3034

Anchimeric assistance autoxidn bromobutane 2484 Androstadienedione hydroxy total synthesis 1397

Androstadienone metab Rhizopus 436 Androstane carbon NMR 1550

Androstanes synthesis 3356 Androstenedione formation 3354

Androstenedione metab Rhizopus 436

Aniline acidity LFER 3065

Aniline benzene heat mixing 2211

Aniline tributyl dediazoniation ESR 2172 Animal aminonitropyridine acid chloride 1153

Anion alkali metal flash photolysis 1792 Anisidinium carboxylate salt NMR 2140

Anisotropic coupling diphenylmethylene triplet 2652

Anisotropy relaxation carbon adamantane 1224 Anisylvinyl bromide acetolysis scrambling 1384

Anomaly mercury polarog drop 565 Anomeric effect dimethoxymethane MO 424

Anomeric effect disaccharide 662 Anomerization ethoxycarbonyloctanol glycoside 2085 Anthrapurpurin complexon polarog redn dissocn 3243

Anthraquinone allyloxy Claisen rearrangement 3304

Antibiotic Potebniamyces structure 1451

Antigen carbohydrate prepn 662 Antigen polysaccharide Neisseria mol structure 2902

Antigen Shigella tetrasaccharide synthesis 3073 Antihypertensive hydrazinopyridazinophthalazine

prepn 3320

Antiinflammatory pyrazoloazepinone 3034 Antimonate hexafluoro pentaiodinium structure 968 Antimonate hexafluoro tribromoselenium 3230

Antimony mixed ligand thiocarbamate 767

Antitumor mechanism thiosemicarbazonatocopper type 603

Apiose 381

App thermal pressure coeff 3135

Arenecyclopentadienyliron cation nucleophilic substitu=

tion 946
Arenesulfonyl azide pyridoindole 558

Arenesulfonylaminoindolizium 558

Arginine benzoyl ester hydrolysis 2516 Arom A ring steroid regioselective prepn 3308

Arom amino acid binding NAD 2297 Arrhenius equation inversion 2458

Arsenate hexafluoro copper 1 carbonyl 2714 Arsenate hexafluoro tribromochalcogen 3230

Arsenic acid hydrogen bond 487

Arsenic boron phenyl transfer thermodn 2476

Arsenic isomorph hydroxylapatite solid soln 2662 Arsenic mixed ligand thiocarbamate 767

Arsenic tetraphenyl transfer thermodn acetonitrile

Aryl radical formation dediazoniation 2172

Arylazirine cyclopentadienyliron complex reaction 1541

Arylcadmium photolysis 1923

Aryldiazomethane 1157

Arylmethylphenyldiazobutene thermolysis kinetics

mechanism 1403 Arylpropenone thiourea cyclocondensation 2734 Ascorbate oxidn hydroperoxyl 3017

Aspenwood steamed dioxane lignin compn 1141 Assocn chloroform methanol 387

Assocn cumene dioxane 678

Assocn diffusion adamantane 1224

Assocn free energy purine mononucleotide 1986

Assocn hydrogen oxalate 876 Assocn mol cytidine polarog 1136 Assocn propionate mixt 400

Assocn thermodn aniline benzene mixt 2211 Asym induction Pummerer cyclization 2404 Asym induction Pummerer reaction 2412

Atom dc glow discharge 568 Autohydrolysis lignin mol wt distribution 1141 Autohydrolysis lignin oxidn alk nitrobenzene 2599 Autohydrolysis lignin residual characteristic 2612

Autohydrolysis lignin UV spectrum 2603 Autoprotolysis ethylene glycol 2470 Autoxidn hydrocarbon propagation kinetics 2755

Autoxidn hydrocarbon propagation anictics 2.64 Autoxidn kinetics bromobutane 2484 Avrami Kolmogoroff theory electro crystn 1304

Azacyclopentazulene pigment coral 1707 Azafluorene oxidn methylation 1506 Azafluorenone methylation 1506

Azepine rearrangement 44

Azetidinone hydroxyvinyl cyclization 222

Azetidinone vinyl 1945 Azide arenesulfonyl pyridoindole 558 Azide dipolar cycloaddn hydropyridine 2342

Azido ketone triphenylphosphine condensation 2696 Azidodeoxygalactopyranosyl halide prepn glycosidation

Azidonitration galactal 1244 Aziridine halo sulfonyl 1958 Azirine iron carbonyl complex reaction 1541

Azo group MO 98 Azobisindolizine 558

Bactericide hydroxymethylnocardicin A prepn 1932 Baeyer Villiger oxo steroid 1557

Barbatene sesquiterpene total synthesis 3343

Barium ion assocn propionate 400
Barrier dibromodiphenylmethane 1881
Barrier rotation dichlorophenyl heterocycle 355

Barrier rotation halothiophenol 1421 Barrier rotation hydroxyl sulfhydryl 450 Barrier rotation vinyl amide NMR 2239 Base stacking formation thermodn 1986

Basicity acetophenone acetone excess acidity 2952 Bend rotation benzamide steric hindrance 2896

Benzal fluoride coupling const 807 Benzamide furyl Diels Alder 314 Benzene aniline mixing heat 2211 Benzene benzoic acid soln 530

Benzene butylamine vol mixing 1915 Benzene disubstituted dielec absorption 2843

Benzene fluoro heat formation 1468

Benzene halogen IR Raman 1814 Benzene heat soln sulfur dioxide 1319 Benzene nitro deriv UV 2167

Benzene nitro soln sulfur dioxide 1319 Benzeneselenenyl thiocyanate addn olefin 2145 Benzeneselenenyl thiocyanate addn phenylpropene

Benzhydrol deriv chiral NMR lanthanide 1446 Benzhydryl chloride solvolysis kinetics 2646 Benzil thiosemicarbazonatocopper structure 603

Benzindoline 1852 Benzindoline rearrangement 1861 1866 Benzoate amino mesityloxy x ray 2767

Benzoate hydrolysis steric effect 2960

Benzobarrelenecarbonitrile dihydro photorearrange=

Benzocycloalkene methylene NMR conformation 3028 Benzocyclobutane alkenyl 1462

Benzocyclobutyl phenyl sulfone reaction 1462

Benzodiazepinone dihydro 2696 Benzodithiepin conformation NMR 3221

Benzofuroxan hydroxynitro rearrangement 2512

Benzofuroxan methoxydinitro complexation demethyla= tion 494

Benzoic acid benzene soln 530 Benzomorphan oxo 1861 1866

Benzomorphan oxo intermediate 1852 Benzoquinone vinyldihydronaphthalene Diels Alder regiochem 3308

Benzothiazine pyrido lithiation 2371

Benzothiazinone 444

Benzothiazole copper chloro crystal structure 1368 Benzothiazole phenylenebis cobalt copper zinc

Benzothiopyranopyranone prepn reaction 3292 Benzotrifluoride NMR fluorine 807

Benzoxathianone phenyl Pummerer product 2404 Benzoxazole structure reactivity NMR 937

Benzoxazonine prepn ring closure 3296 Benzoyl radical photolysis deoxybenzoin 2812 Benzyl cyanide carbon NMR 1274

Benzyl hydrogen bond 3005

Benzyl radical photolysis deoxybenzoin 2812 Benzyl sulfonium Pummerer mechanism 2388 Benzylchromium kinetics exchange chromium 1233

Benzylidenaniline luminescence 2539 Benzylphenyldimethylammonium substitution thiophe=

noxide kinetics 1354 Benzylsulfinylbenzoic acid Pummerer cyclization 2404 Berberidic acid ester lactone 1647

Bergapten mass spectra 1995 Beryllium chloride hydration 913

Bicyclohexane mol ion isomerization 348

Bicyclooctanone acetoxy 3301 Bicyclooctanone Bucherer Bergs Strecker reaction

Bicyclooctenone 2853

Bicyclopentane prodn photocycloaddn mechanism

Bidentate organotin complex stereochem 2223 Binding manganese pyridoxal phosphate 1050 Binuclear pyrazolato palladium platinum complexes correction 796

Bipyridine pyrazolato platinum palladium ligand 3237

Bond angle azo group 98 Bond angle methylenebenzocycloalkene NMR 3028

Bond aryl cadmium cleavage 1923 Bond energy carbon gallium 3178 Bond hydrogen acid water IR 487

Bond platinum iodide insertion acetylene 2549 Bond strength allyl isocyanide 2482

Bonded energy contribution hydrocarbon 1772 Bonding hydrogen ammonium halide IR 404

Borane isothiocyanato reaction methyl thioborate 1122 Borate tetrahydro hydrogen deuterium exchange 503

Borate tetraphenyl transfer thermodn acetonitrile

Borazine protonation MO 1751 Boric acid complexation salicylate 920

Bornyl acetate oxidn 733

Borohydride redn ketone steric effect 2848

Borohydride redn pyridylcarbonylaminopyridine 2981 Borohydride redn stereoselectivity cyanocyclohexanone

Boron arsenic phenyl transfer thermodn 2476

Boron methylamine methyl sulfide complex 1122

Boron pyrazolyl dimer 2520

Boulton Katritzky rearrangement hydroxynitrobenzofu= roxan 2512

Brevicomin total synthesis 1475

Bridged cyclobutanone ring expansion 2669

Bridged diphenyl conformation 276'

Broensted LFER hydration phthalaldehyde 506 Broensted proton exchange iminopyrimidine 2783 Bromamine methyl photoelectron 1279

Bromide binding iron 3 rate 77 Bromide butylammonium nitrobenzene NMR 835 Bromide hydrogen transfer thermodn glycerol 961

Bromide oxadiazinium deriv structure 3157 Bromide partial molal vol 2892

Bromide tantalum heat formation 2665

Bromination amine imide cyclization 3155

Bromination halophenylsulfonyl 1958 Bromination kinetics uracil 626

Bromine atom recombination calcn 1167 Bromine oxidn iron phenanthroline 2065

Bromite reaction alk soln 1524

Bromo enamines 1866

Bromo rhenium carbonyl pyrazolylphosphine structure

Bromobutane kinetics autoxidn 2484 Bromobutane reaction alkoxide mixt 2747

Bromohydroxyuracil dehydration kinetics mechanism

Bromoindolylpropionamide deriv Cliona 2325 Bromosuccinamide protein tryptophan fluorescence quenching 1471

Bromosuccinimide photolysis 1967 Bucherer Bergs reaction stereochemistry 1456 Butadiene reaction hydrogen atom rate 777 Butadiene reaction kinetics ground oxygen 949 Butane isopropylidenedioxy rhodium complex 180

Butanol picoline vol mixing 2386 Butene isomer electron mobility 2716 Butene photoisomerization 2991 Butene reaction hydrogen atom rate 777
Butyl alc aq halide viscosity 3247

Butyl chloride solvolysis solvent effect 500

Butyl chloride tert Raman polymorphism 846 Butyl mercaptan photosensitizer butene isomerization

Butyl peroxide trifluoroacetaldehyde pyrolysis 2201 Butyl rearrangement dediazoniation 2172 Butylamine hydrocarbon vol mixing 1915

Butylammonium bromide nitrobenzene NMR 835 Butylammonium fluoride oxime solvate 1481

Butylammonium perchlorate mercury capacitance **DMF** 2268 Butyldimethylsilyl protecting group nucleoside nucleo=

tide 2230 Butylperoxy autoxidn bromobutane 2484

Butylperoxy radical ESR 253 Cadmium aryliminomethyl bridged platinum complex

Cadmium complex ethylenediaminediacetic acid ther= modn 113

Cadmium complexation fulvate pH 1263 Cadmium cytosine chloro crystal structure 1372

Cadmium diaryl photolysis 1923 Cadmium electrooxidn cobalt manganese carbonyl 2196

Cadmium triethylenetetramine complex thermodn

Caerulomycin A precursor Streptomyces 3200 Calcium nickel nitrate hydrate melt 2028 Camphanediol NMR configuration 318 Capacitance double layer mercury DMF 2268

Capillary polyethylene polarog drop anomaly 565 Carbacephem oxo 614

Carbanion alkali ion pair ether 999 Carbene mechanism decompn diazirine 1299 Carbene methyl isocyanide kinetics 1229 Carbocation classical vs nonclassical 2885

Carbomethoxyl migration pyrrolecarboxylate 2743

Carbon dioxide anion spin trapping 1150 Carbon dioxide dissocn rate calcn 1731

Carbon labeled adose 3160 Carbon monoxide cluster protonated stability 2159

Carbon monoxide reaction nitrous oxide 320 Carbon monoxide redn nitrous oxide 718 Carbon NMR benzyl cyanide 1274

Carbon NMR cyclic phosphoramidate 21 Carbon NMR dihydrothiophene 131

Carbon NMR ethyldimethyloxabicyclohexane configu=

ration 2314
Carbon NMR germanium methyl deriv 1426
Carbon NMR homonor steroid 1550
Carbon NMR metal binding pyridoxine 2118

Carbon NMR methoxy tropone 1949 Carbon NMR oxazole deriv 3168

Carbon NMR phorbol ester 2071 Carbon relaxation anisotropy adamantane 1224 Carbon silicon double bond 1162

Carbon steel iron dissoln 188 Carbon tetrachloride chlorine abstraction 2578 Carbon tetrachloride reaction phenoxy copper 890 Carbon tetraphenyl acetonitrile thermodn transfer

Carbon 13 NMR diterpenoid alkaloid 1652 Carbon 13 NMR halo keto steroid 3069 Carbonyl compd enolization equil 1177 Carbonyl complex iron azirine reaction 1541 Carbonyl copper 1 hexafluoroarsenate 2714 Carbonyl detn degree enolization 797

Carbonyl heteronuclear metal electrochem synthesis

Carbonyl molybdenum cyclodiphosphatetrasilahexane structure 1909 Carbonyl molybdenum ethanolaminogallato allyl struc=

ture 1335

Carbonyl nitroso cyclopentadiene cycloaddn 1712 Carbonyl tungsten pyrazolyphosphine structure 2285 Carbonylferrate reaction thicketone 598 Carboxylate manganese phase transition thermodn

151

Carboxylate salt pyridinium anisidinium NMR 2140 Carboxylic acid gas solvation fluoromethoxide 473 Carboxylic acid olefin 3272 Carboxylic acid protonation structure fragmentation

282

Carboxylic acid radical adduct ESR 1500

Catalysis acid coumarin acetal hydrolysis 2260 Catalysis phase transfer cyclopropane correction 2803

Catalyst immobilized fluoride 2629 Catalyst molybdenum oxide pumice 2779 Catalyst polymn norbornene mechanism 2022

Catalyst rhodium redn phenylpropenone 218 Catalyst subtilisin hydrolysis kinetics 2516

Catharanthine rearrangement 2572 Catharine total synthesis 1682

Cation exchange cobalt complex 1214 Cation trianisylvinyl rearrangement acetolysis 1384 Cationic polymn isobutene kinetics 2355

Cationic surfactant liq crystal interface 747 Catlyst isobutene polymn 2355

CD magnetic phthalocyanine 1111 CD palladium platinum amino acid 62 CD palladium platinum diamine 67

Cellulase hydrolysis dioxane lignin 2612

Cephalosporin dethio 222

Cephalosporin precursor aminoadipylcysteinylvaline

Cephemcarboxylate dethio phenoxyacetamido 227 Cesium lithium sulfite structure 899

Cesium perchlorate mercury capacitance DMF 2268

Cesium vanadia catalyst active site 2464 Chalcogenide germanium silicon deriv NMR 3253

Charge transfer complex cond 1033 Charge transfer ketone alkene 342

Charge transfer optical ferrocyanide complex 2079 Charge transfer phenylfuran 2337

Chasmanine intermediate synthesis 2124

Chelate monothioacetylacetone extn solvent 3190 Chemiluminescence thermolysis dioxetane 283 Chiral benzhydrol deriv lanthanide NMR 1446 Chlorapatite hydroxylapatite solid soln soly 1919

Chloride beryllium hydration 913

Chloride lithium deuterium oxide luminescence 1488 Chloride lithium glass visible electron 1758

Chloride nickel tetrabutylammonium iodide melt 147 Chloride palladium ethylene aq equil 982

Chloride soln viscosity 3247 Chloride vinyl photolysis IR laser 953

Chlorination adenine nucleoside thionyl chloride 274 Chlorination alkylphenol 552

Chlorine abstraction ethylpentyl radical 2578 Chlorine hydroxide MO CI SCF 1839

Chlorine oxidn iron phenanthroline 2065 Chlorinolysis org sulfide 3193 Chlorinolysis sulfonyl sulfide steric effect 2185

Chloro bridged platinum pyridine complex 682 Chloro cadmium cytosine structure 1372

Chloro copper phenylenebisbenzothiazole structure

Chloro mercury perchlorato phosphine complex 2217 Chloro pentanedionato rhenate 1252

Chlorobenzylchromium exchange benzylchromium

Chlorobutane autoxidn kinetics 2484

Chlorocyclohexadienone 552

Chlorodecarboxylation cyclohexanecarboxylic acid mechanism 1257

Chloroethane clathrate conformation NMR 635 Chloroethane heat soln sulfur dioxide 1319 Chloroform heat mixing methanol 387

Chlorogermane methyl photoelectron 2278

Chloromethyl radical reaction copper complex 890 Chlorophenol acetone complex IR 2707 Chlorosulfonium chloride Pummerer rearrangement

Chlorosulfonyl group substitution hydride 1206

Chlorosulfonylethyl sulfone redn 1206 Cholestane carbon NMR 1550 Cholestene NMR 27

Cholesteryl ester phosphatidylcholine NMR 2364 Chromanone cyclization boron fluoride acetic anhydride

Chromate potassium phase transition 2703

Chromatog asym alkane isomer 367 Chromatog gas luminescence quenching detector 1238

Chromene prepn spectra monolayer property 1377 Chromium catalysis redn nitrous oxide 718 Chromium dihydropyridine carbonyl 300

Chromium extn phosphate sulfate 3011 Chromium ferrocyanide exchange cobalt complex

Chromium kinetics exchange benzylchromium 1233 Chromium nitrate density heat capacity 2798 Chromium 2 redn cobalt complex 1765

Chromous exchange benzylchromium 1233 Chronopotentiometry electrochem lead ion amalgam Chymotrypsin enantiomer specificity solvent 2245 CI dihydrocyanobenzobarrelene photorearrangement

CIDEP semiquinone radical 2971

Claisen Eschenmoser rearrangement allal 1746 Claisen rearrangement allyloxy anthraquinone 3304 Claisen rearrangement glycal ester enolate 1743 Clathrate hydrate dichloroethane conformation 635

Claviceps ergot alkaloid 1638 Cleavage aryl cadmium bond 1923

Cleavage oxirane kinetics dilatometer 2444 Cleavage Raney nickel thiomalonate 2522

Cliona bromoindolylpropionamide deriv 2325

Clionamide structure sponge 2325 Cluster diatomic mol protonated stability 2159 Cluster MO Xalpha scattered wave 1826

Cobalt complex exchange chromium ferrocyanide 1214

Cobalt complex redn substituent effect 1765 Cobalt nitrosyl pyrazolyl complex 3119 Cobalt peptide complex metal 104

Cobalt phenylenebisbenzothiazole complex 1

Cobalt pyrazolato bridged palladium platinum 3237 Cobalt pyridine fluorophosphate structure 135

Cobalt quinolinol complex stability extn 580 Cobalt selenocyanato thiocyanato complex 394 Cobalt 3 CyDTA complex equil 2292

Combustion heat decafluorobiphenyl 1468 Combustion heat perfluorocyclohexene 685 Complex acetone pentachlorophenol IR 2707
Complex allyliron reaction nucleophile 2790
Complex equil calcn pH titrn 466

Complexation boric acid salicylate 920

Complexation cadmium fulvate pH 1263 Complexation thermodn triethylenetetramine 1785 Compressibility water THF mixt 1006

Computer controlled titrator complex equil 466 Cond aq indium chloro complex 702

Cond aq potassium adamantylcarboxylate 673 Cond charge transfer complex 1033

Cond elec salt aq hexametapol 1127 Condensation aldol furanose formaldehyde 381

Condensation azido ketone triphenylphosphine 2696 Condensation four component cyclopeptide synthesis 3257

Configuration abs nojigiku alc 742 Configuration camphanediol NMR 318

Configuration ethyldimethyloxabicyclohexane IR 2314

Configuration sucrose synthesis intermediate 653 Configuration tin bidentate complex 2223

Conformation allylic alc ether 1890 Conformation benzodithiepin NMR 3221

Conformation benzolatineph NMR 3221 Conformation bridged diphenyl 2767 Conformation change acetal oxidn 3041 Conformation cobalt pyrazolyl nitrosyl complex 3119 Conformation cyclic ketone redn 2848

Conformation cyclohexanol lanthanide complex 1080

Conformation cyclohexanone redn stereochem 2823 Conformation cyclohexenylcarboxylic acid chlorode=

carboxylation 1257 Conformation dichloroethane clathrate hydrate 635 Conformation dichlorophenyl heterocycle 355

Conformation dicyclohexanotetroxecane 2154 Conformation dimethoxymethane MO 424 Conformation dithiametacyclophane 3080

Conformation effect cleavage oxirane 2444 Conformation halothiophenol NMR 1421 Conformation homo steroid 1550

Conformation methyl steroid NMR 27 Conformation methylenebenzocycloalkene NMR 3028

Conformation Neisseria polysaccharide 2902 Conformation NMR allylphenol 3005

Conformation NMR furanoside 2504 Conformation NMR phenyl ether 2967 Conformation propanol sulfur deriv 2426 Conformation pyridine aldoxime 2135 Conformation spin coupling dihalo diphenylmethane

Conformation sucrose synthesis intermediate 653 Conformation sugar stannane deriv 38

Conformation trioxane pressure Raman 2869 Conformational inversion Decalin NMR 803 Conjugate acid structure fragmentation 2827 Contact solvent sepd ion pair 999

Control cyclization naphthalenone 1064
Coordinate normal trisilylamine 1779
Coordination bromide iron 3 rate 77
Coordination nickel silver thiocyanate structure 3061

Copper hexaammine ion ligand splitting 1926 Copper morpholinecarbodithioato pyrrolidinecarbodi=

thicato ESR 2379

Copper peptide complex metal 104 Copper phenoxy reaction carbon tetrachloride 890 Copper phenylenebisbenzothiazole chloro structure

Copper phenylenebisbenzothiazole complex 1 Copper protoporphyrin kinetics 2916 Copper pyrazolato bridged palladium platinum 3237 Copper salt alkylphosphonate acylation 3216
Copper selenocyanato thiocyanato complex 394
Copper thiosemicarbazonato benzil structure 603

Copper 1 carbonyl fluorophosphine hexafluoroarsenate 2714 Coral azacyclopentazulene pigment 1707 Cordrastine synthesis 1598

Correlation function reorientation NMR 2329 Corrosion carbon steel hydrogen sulfide 188 Corydaine 1545 1569

Cotarnine hydro demethylation 1720

Coumarin ethyl acetal hydrolysis kinetics 2260 Coumarin furano mass spectra 1995

Coumarin prepn spectra monolayer property 1377 Coumarinate ethyl lactonization kinetics 2260

Coupling const benzal fluoride 807 Coupling enol phosphate cuprate 1431 Coupling isotropic hyperfine radical 3126

Coupling norcatharanthine oxide vindoline 2572 Coupling nucleotide 3140

Coupling phosphorus carbon phosphoramidate 21
Coupling spin fluoro steroid NMR 3069
Cresolphthalein polarog redn 1294
Crit density DMSO 705

Cross section electron scattering alkane 2626 Crystal mol structure phosphorin deriv 1273 Crystal structure aminomesityloxybenzoate 2767 Crystal structure arenesulfonylaminoindolizium 558

Crystal structure condensed oxazolone 157

Crystal structure diphosphatetrasilacyclohexane deriv

Crystal structure iron nitrosyl pyrazolyl 3119 Crystal structure lycolucine deriv 1105 Crystal structure mercury chloro phosphine 2217

Crystal structure nickel pyrazolyl gallate 3107
Crystal structure oxatricycloundecenone 2669
Crystal structure TCNQ quinoxalinium complex 1033
Crystal electro Kolmogoroff Avrami theory 1304

Cumene dioxane excess property 678 Cuprate coupling enol phosphate 1431

Current modulation reaction rate detn 785

Cyanide benzyl carbon NMR 1274
Cyano phosphine mercury complex 762
Cyanobutyl radical cyclization kinetics 831
Cyanocyclohexanone borohydride redn stereoselectivity

Cyanoethylcyclohexenone cyclization 1631 Cyanoferrate assocn heterocyclic nitrogen base 2079

Cyanogen azide safety 2342 Cyanoguanidine acrylonitrile cycloaddn 2593 Cyanohydrin hydrogenolysis 3160

Cyanoiminopyrimidine 2593 Cyanopropoxyoxotetramethylpiperidine thermal decompn 2834

Cyathatriol acetyl deriv Cyathus 3338 Cyathatriol Cyathus 3332 Cyathus cyathatriol 3332

Cyathus deterpenoid formation 3338 Cyclanone cyano 17

Cyclic imidate salt hydrolysis 3262 Cyclic ketone redn diaxial interaction 2848 Cyclic phosphoramidate NMR delocalization 21

Cyclitol amino 1870

Cyclization amine imide bromination 3155

Cyclization chromanone thiochromanone 3292 Cyclization cyanoalkanamide 17

Cyclization cyanobutyl radical kinetics 831 Cyclization haloalkanamide lithium dialkylamide 1201 Cyclization hydroxydimethylindanone dioxetane energized 283

Cyclization hydroxymethylnorcardicinic acid 1939 Cyclization hydroxyvinyl azetidinone 222 Cyclization oxymercuration vinylcyclopropylethanol

Cyclization Pictet Spengler oxoprotoemetine 1679

Cyclization Pummerer benzylsulfinylbenzoic acid

Cyclization Pummerer cysteinylglycine sulfoxide 2412 Cyclization styryl ketoxime mass spectra 2908 Cyclization transannular nitroso alkenyl 2923 Cycloaddn acryloyl chloride Schiff base 1945 Cycloaddn cyanoguanidine acrylonitrile 2593

Cycloaddn dipolar hydropyridine azide 2342 Cycloaddn intramol alkene oxidn xylenol 2853

Cycloaddn nitrosocarbonyl cyclopentadiene 1712

Cycloaddn pyrazolol 904
Cycloalkane heat evapn formation 2302
Cycloalkane partial molal vol 2892
Cyclobutanone bridged ring expansion 2669

Cyclobutanone laser radiation 1511 Cyclocondensation arylpropenone thiourea 2734 Cyclocondensation four component peptide aldehyde isonitrile 3257

Cyclocondensation phenylcarbamoylmethyl iminophos= phorane 2696 Cyclocondensation secohomoestratrienal regiochem

Cyclocondensation stereochem secoandrostatrienetrione

Cyclodiphosphatetrasilahexane molybdenum carbonyl structure 1909

Cycloheptaphenanthrenone methoxy 3308

Cyclohexadienone chloro 552 Cyclohexadienone isoprene addn 377 Cyclohexane dichlorophenyl NMR 355 Cyclohexane heat soln sulfur dioxide 1319

Cyclohexane methylene 3301 Cyclohexanecarboxylic acid Kochi reaction 1257 Cyclohexanediol equilibration stereochem 304

Cyclohexanediol rearrangement mechanism 304 Cyclohexanol conformation lanthanide complex 1080 Cyclohexanone cyano stereoselective redn 2823

Cyclohexanone protonation photolysis 1442 Cyclohexene mol ion isomerization 348 Cyclohexene oxide cleavage mechanism 2444 Cyclohexene photochem addn nitramine 2936

Cyclohexenone cyanoethyl cyclization 1631 Cyclohexenylcarboxylic acid conformation chlorode= carboxylation 1257

Cyclopentadiene nitrosocarbonyl cycloaddn 1712 Cyclopentadienone dimer 1541

Cyclopentadienyliron complex arylazirine reaction

Cyclopentadioxazine 1712

Cyclopentane methylene mol ion isomerization 348

Cyclopentane pyrolysis shock wave 1324 Cyclopentanecarbonitrile alkyl oxo 17

Cyclopentene methyl mol ion isomerization 348 Cyclopentene oxide cleavage mechanism 2444

Cyclopentenium radical 348 Cyclopentyl chloride thermal dehydrochlorination

Cyclopeptide synthesis four component condensation 3257

Cyclophane dithiameta crystal structure 3080 Cyclopropane electron interaction dense fluid 1906 Cyclopropane oxirane diphenyl voltammetry 2098 Cyclopropane phase transfer catalysis correction 2803

Cyclopropenium ion appearance potential 249 CyDTA cobalt 3 complex equil 2292

Cysteine aminoadipic acid peptide 1388 Cysteinylglycine sulfoxide Pummerer cyclization 2412

Cytidine adsorption mol assocn polarog 1136 Cytosine cadmium chloro structure 1372 Dative structure mol complex 1418 Debenzylation benzylic oxime 1939

Decafluorobiphenyl heat combustion formation 1468

Decalin conformational inversion NMR 803 Decarboxylation picolinic acid kinetics 1098 Decinine formation lysine Decodon 1606 Decodine formation lysine Decodon 1606 Decodon Lythraceae alkaloid lysine 1606

Decompn copper catalyzed diazonorbornanone 1668 Decompn thermal diol 304

Dediazoniation tributylaniline dibutylaniline ESR 2172

Degrdn sesquiterpene lactone 213

Dehydration heat conjugate acid 2827 Dehydration kinetics mechanism bromohydroxyuracil 626

Dehydrochlorination thermal chloronorbornene chlorocyclopentane 2621

Dehydrogenase alc deriv specificity kinetics 2533 Dehydrogenase binding NAD model 2297 Dehydrogenase stereoselective oxidn diol 1025

Dehydrosecodine precursor 289 Delocalization cyclic phosphoramidate NMR 21 Delphonine deoxy intermediate synthesis 2124

Demethylation hydroctarnine laureline 1720 Demethylation methoxydinitrobenzofuroxan 494

Demethylation methoxynitrobenzofuroxan rearrange= ment 2512 Dendroketose 384

Density aq ammonium chloride 702 Density aq electrolyte 2798 Density binary melt 147

Density binary melt 147
Density cumene dioxane system 678

Density DMSO 705 Deoxyadenosine 274

Deoxybenzoin photolysis radical formation 2812

Deoxydelphonine intermediate synthesis 2124 Deoxytubulosine total synthesis 1679 Depolymp soidia sytchydrolygis linnin 2603

Depolymn acidic autohydrolysis lignin 2603 Deprotonation arenecyclopentadienyliron cation 946 Deprotonation ethoxysulfonium diastereotopism 2397 Desorption surface salt nonaq solvent 856

Detector gas chromatog luminescence quenching 1238 Deterpenoid formation Cyathus 3338

Dethia analog lactam antibiotic 227 Dethiocephalosporin 222

Dethiocephemcarboxylate phenoxyacetamido 227

Deuterated water ultrasound excess velocity 2333
Deuterated water ultrasound velocity polemic 2335
Deuteration halonortricyclene ring cleavage 2885
Deuteride phosphorus transition 2491
Deuterium fluoride complex mol vibration 1341
Deuterium bydrogen exchange alkali tetrabydrohorate

Deuterium fluoride complex moi vibration 1341
Deuterium hydrogen exchange alkali tetrahydroborate
503

Deuterium isotope effect substitution 1089 Deuterium oxide lithium chloride luminescence 1488 Diamine palladium platinum CD 67

Diastereotopism Pummerer cyclization 2404 Diastereotopism Pummerer reaction mechanism 2397 Diat mixt rotational vibrational relaxation 1115

Diatomic mol cluster protonated stability 2159 Diaxial interaction redn cyclic ketone 2848 Diazabicycloheptene prepn hydrogenation 2342

Diazirine oxidn thermal decompn 1299 Diazo mechanism decompn diazirine 1299

Diazodiphenylmethane reaction sulfur dioxide 3278 Diazoiminopyridine 2342

Diazomethane aryl 1157

Diazomethane ring expansion steroid 1557 Diazonorbornanone copper catalyzed decompn 1668

Diazonorbornanone prepn NMR 1656
Dibromodiphenylmethane spin coupling barrier 355
Dichrometa retession physics transition parrier 355
Dichrometa retession physics transition 2703

Dichromate potassium phase transition 2703 Dicyclohexanotetroxecane structure 2154

Dicyclohexylcarbodiimide cyclization benzylsulfinylben = zoic acid 2404

Dideoxystreptamine reaction 1870
Dielec absorption disubstituted benzene 2843
Dielec const water structure glycol, 608

Dielec const water structure glycol 608
Diels Alder furylbenzamide 314
Diels Alder overhytensets structure glycol 608

Diels Alder oxobutenoate stereochem 1399 Diels Alder regiochem vinyldihydronaphthalene benzo= quinone 3308

Diels Alder stereoselectivity control 2564 Diels Alder Wessely oxidn product 2853

Diethylenetriamine platinum guanosine structure 57 Differential equation transport potential barriers 1329 Diffusion lead ion ethylene glycol 1801

Diffusion rotational adamantane 1224

Difluorodiphenylmethane spin coupling barrier 1881 Diglyme oxidn 304

Diglyme oxidn 304 Dihalo diphenylmethane conformation spin coupling 1881

Dihydrolycolucine structure 1105 Dihydrosecodinol synthesis 289 Diimine 1157

Diketone enolization kinetics equil 1177 Diketopiperazine trifluoroacetyl mass spectra 2037 Diktopiperazine trifluoroacetyl mass spectra 2052

Diktopiperazine trifluoroacetyl mass spectra 2052 Dilatometer oxirane cleavage kinetics 2444 Diln heat benzoic acid benzene 530

Dimer indazole pyrazole metal complex 2520 Dimerization acenaphthylene dioxetane energized 283 Dimerization diisothiocyanatomethylthioborane 1122

Dimerization heat benzoic acid benzene 530 Dimerization imine oxidn 1157

Dimethoxymethane MO anomeric effect 424 Dimethyl sulfite aq thermodn formation 454 Dimethylcylopentanone Bucherer Bergs Strecker reaction 1456

Dimethylpyrazolylaminoethanolatogallate ligand 167 Dioxane cumene excess property 678

Dioxane cumene excess property 678 Dioxane dichlorophenyl NMR 355 Dioxane lignin cellulase hydrolysis 2612

Dioxane lignin compn steamed aspenwood 1141 Dioxetane thermolysis 283

Dioxide sulfur phosphorus selenide complex 754 Dioxolane dichlorophenyl NMR 355 Dioxolane methoxy hydrolysis kinetics 1531 Dioxolenium hydrolysis kinetics 1531 Dipeptide palladium platinum CD 62 Diphenyl bridged conformation 2767 Diphenylmethane dihalo conformation spin coupling

Diphenylmethylene merostabilization ESR 2652 Diphosphatetrasilacyclohexane deriv x ray 174

Dipolar cycloaddn hydropyridine azide 2342

Dipole interaction cleavage oxirane 2444 Dipole moment luminescence benzylidenaniline 2539 Disaccharide glycosidation ethoxycarbonyloctanol

Disaccharide glycoside intermediate 2091 Disaccharide glycoside intermediate correction 2895 Disaccharide rhamnose Shigella antigen prepn 662

Discharge glow reaction rate mechanism 785 Discharge oxygen atom dc 568 Disorder structure pyrazine polymorph 3056

Disproportionation allyloxoquinolizidine 2114 Dissocn anthrapurpurin complexon 3243

Dissocn diatom mechanism 1167 Dissocn kinetics acetylene platinum complex 2549

Dissocn protonation formate acetate 2996 Dissocn rate high pressure calcn 1731 Dissoln iron carbon steel 188

Disulfide aminoadipylcysteinylvaline 1388 Diterpene khusimone total synthesis 708 Diterpenoid alkaloid carbon 13 NMR 1652

Dithiacephalosporin oxo 614 Dithiametacyclophane crystal structure 3080 Dithiame dichlorophenyl NMR 355

DMF mercury double layer capacitance 2268 DMF platinum pyridine chloro complex 682 DMF soln sulfur dioxide 1319

DMSO alkali halide soln model 538

DMSO ag ionization toluenesulfonic acid 853

DMSO density vapor pressure 705 DMSO heat soln sulfur dioxide 1319 DNA bisintercalative phenanthridinium 2305

Dodecane water interface adsorption TBP 1218 Double layer capacitance mercury DMF 2268

Dunaliella sterol 2569 EDTA hydrolysis ammonolysis kinetics 1018

Elec cond aq acetate potassium 673 Elec cond aq ammonium chloride 702 Elec cond manganese carboxylate 151 Elec cond salt aq hexametapol 1127

Elec discharge reaction rate mechanism 785

Elec field methyl steroid 27 Electrochem chronopotentiometry lead ion amalgam

Electrochem oxidn acetate methylation ethene 990 Electrochem synthesis heteronuclear metal carbonyl

Electrochem trifluoromethylation unsatd compd 2617 Electrocrystn electrode surface phase change 1304

Electrode mercury adsorption tetraethylammonium bromide 330 Electrode surface phase change electrocrystn 1304

Electrolyte aq heat capacity 2798 Electron configuration hydrocarbon calcn 1772 Electron configuration methylenebenzocycloalkene

NMR 3028 Electron cyclopropane interaction dense fluid 1906 Electron donating prop phenylfuran 2337 Electron mobility butene isomer 2716

Electron scattering cross section alkane 2626 Electron solvated allyl alc reactivity 839 Electron solvated amine radiolysis 2013 Electron solvated IR UV 591

Electron trapped glass 1488

Electron trapped glass spectra 197 Electron visible lithium chloride glass 1758 Electronegativity regioselectivity rearrangement Pum=

merer 3193 Electronic transition nitrobenzene deriv 2167 Electrooxide electrosorbed selenium tellurite

2560 Electrooxidn heteronuclear metal carbonyl synthesis 2196

Electrophilic bromination cyclization amine imide 3155

Electrophilic substitution excess acidity 2944 Electrophilic substitution thiomalonate 2522 Electrosorption selenite selenate selenide tellurite

Emission spectrometry analysis phthalocyanine 2546 Enamines bromo 1866 Enantiomer specificity chymotrypsin solvent 2245

Energy barrier fragmentation conjugate acid 2827 Energy bonded nonbonded contribution hydrocarbon 1772

Energy interaction dihydrocyanobenzobarrelene photo= rearrangement 2804

Energy level Rydberg amidogen 3182 Energy level vibration methane deriv 2321 Energy MO dimethoxy 424

Energy protonated diatomic mol cluster 2159

Energy resonance perfluorobenzene 685 Enol ether thermodn formation 240 Enol keto equil 1177

Enol phosphate coupling cuprate 1431

Enol phosphate coupling cuprate correction 2895 Enolate Claisen rearrangement glycal ester 1743 Enolization acetophenone acetone excess acidity 2952

Enolization aldehyde ketone thermodn 240
Enolization carbonyl detn degree 797
Enolization kinetics equil LFER 1177
Enthalpy combustion perfluorocyclohexane 685

Enthalpy cumene dioxane system 678

Entropy fusion manganese carboxylate 151 Entropy hydration halide soln 3247 Entropy pyrazine polymorph 3056 Entropy tantalum bromide 2665

Entropy volumetric melting org compd 2010 Enzyme catalyst hydrolysis 2516

Enzyme oxidn catalyst pentanediol 1025 Epibromohydrin cyclization hydrazide 3155

Epimerization chlorination adenosine 274 Epimerization steroid glycol 304

Epoxy sulfoxide sulfone 258 Epoxyandrostane metab Rhizopus 436 Epoxytridecadienoate juvenile hormone prepn 3145 Equation chloropalladate equil ethylene 982

Equation differential transport potential barriers 1329

Equil enolization kinetics LFER 1177 Equil cobalt nickel copper 104

Equilibration cyclohexanediol stereochem 304

Ergonine Claviceps 1638 Ergoptine Claviceps 1638 Ergosterol Dunaliella 2569 Ergot alkaloid Claviceps 1638 Ergovaline Claviceps 1638 ESR ammonium fluoroketone 600

ESR butylperoxy radical 253 ESR copper morpholinecarbodithioato pyrrolidinecar= bodithioato 2379

ESR dediazoniation tributylaniline dibutylaniline ESR manganese molybdenum oxide pumice 2779

ESR merostabilization diphenylmethylene 2652 ESR radical adduct carboxylic acid 1500 ESR silylperoxy stannylperoxy 2761 ESR TCNQ quinoxalinium complex 1033 Ester glycol oxygen exchange 1531 Ester hydrolysis excess acidity 2944 Ester keto enolization equil 1177 Ester oxo conversion unsatd 1431 Ester oxo conversion unsatd correction 2895 Ester phorbol carbon NMR 2071 Ester protonation gas phase 2996 Ester succinimidyl 2775 Ester thio thione reaction tetracarbonylferrate 598 Estrone total synthesis 3308 Ethane dichloro clathrate conformation 635 Ethanethiol vapor pressure isotope effect 1350 Ethanol picoline vol mixing 2386 Ethanol protonation rate 1518 Ethanolaminato gallium methyl structure 586 Ethanolaminogallato molybdenum allyl carbonyl struc= ture 1335 Ethenal protonation rate 1518 Ethene methylation electrochem oxidn acetate 990 Ether alkyl phenyl 1887 Ether allylic photoelectron 1890 Ether enol thermodn formation 240 Ether partial molal vol 2585 2892 Ether phenyl conformation NMR 2967 Ethoxycarbonyloctanol glycosidation disaccharide 2085 Ethyl acetal coumarin hydrolysis kinetics 2260 Ethyl acetate soln sulfur dioxide 1319 Ethyl diazoacetate ring expansion 1557 Ethyl ether hydrogen fluoride vibration 1341 Ethyl hydrogen abstraction toluene 3178 Ethyl sulfone 1206 Ethylamine radiolysis solvated electron 2013 Ethylammonium perchlorate mercury capacitance **DMF** 2268 Ethyldimethyloxabicyclohexane configuration IR 2314 Ethylene glycol ionization free energy 2470 Ethylene glycol lead redn 1801 Ethylenediamine cobalt cation exchange 1214 Ethylenediamine radiolysis solvated electron 2013 Ethylenediaminediacetic acid transition metal complex Ethylenediaminetetracetic acid hydrolysis mechanism 1018 Ethylgallium pyrolysis 3178 Ethylidenecyclopropylethanol isomerization 2314 Ethylpentyl abstraction toluene LFER 2578 Ethylperoxyhexanoate butyl thermolysis toluene 2578 Evapn heat cycloalkane 2302 Excess acidity reaction kinetics 2944 Excess property cumene dioxane 678 Exchange hydrogen deuterium alkali tetrahydroborate 503 Exchange hydrogen isomerization toluamide 2896 Exchange kinetics chromium benzylchromium 1233 Exchange kinetics manganese NADP 2434 Exchange ligand hydrogenation ferrocene pyrene 933
Exchange oxygen glycol monoester 1531 Exchange proton methylpyrimidine 2783 Exciplex ketone alkene 342 Excitation energy azo group 98 Expansion thiaalkane 3135 Explosion thermal methyl isocyanide 2677 Extn chromium phosphate sulfate 3011 Extn cobalt quinolinol complex stability 580 Ferrate tetracarbonyl reaction thioketone 598 Ferric chloride extn polyurethane foam 2032 Ferrocene pyrene hydrogenation ligand exchange 933

Ferrocyanide chromium exchange cobalt complex Ferrocyanide complex optical charge transfer 2079 Flash photolysis alkali metal anion 1792 Flavone dihydroxytetramethoxy Notholaena 1901 Flow activation parameter binary melt 147 Fluidity calcium nickel nitrate hydrate 2028 Fluorescence benzylidenaniline luminescence 2539 Fluorescence irradiated perfluorocarbon magnetic field Fluorescence quenching protein tryptophan bromosuc= cinamide 1471 Fluoride butylammonium oxime solvate 1481 Fluoride hydrogen complex mol vibration 1341 Fluoride immobilized catalyst 2629 Fluorinated phenyl compd photoelectron 2256 Fluorination enthalpy perfluorocyclohexene 685 Fluorine NMR benzotrifluoride 807 Fluoroacetate electrooxidn trifluoromethylation 2617 Fluoroacetato mercury phosphine complex 91 Fluoroacetyldiketopiperazine mass spectra 2037 Fluoroacetyldiketopyrazine mass spectra 2052 Fluoroantimonate iodinium structure 968 Fluoroarsenate copper 1 carbonyl trifluorophosphine Fluoroarsenate tribromochalcogen 3230 Fluorobiphenyl heat combustion formation 1468 Fluoroform IR multiphoton dissocn 3173 Fluoroform nuclear spin proton coupling 1877 Fluorogermane methyl photoelectron 2278 Fluoroketone ammonium ESR 600 Fluoromethanesulfonate gold silver 326 Fluoromethoxide solvation carboxylic acid 473 Fluoromethylation electrochem unsatd compd 2617 Fluorophosphate cobalt pyridine structure 135 Fluorophosphate potassium structure 886 Fluorophosphine copper 1 hexafluoroarsenate 2714 Fluorosilyl insertion phosphine silane methanethiol Fluorosulfato palladium complex 2058 Foam extn ferric chloride 2032 Force field hydrogen oxalate 876 Formaldehyde aldol condensation furanose 381 Formaldehyde hydroxymethylation ribose 384 Formaldehyde oxide trapping ketone 3272 formaldehyde protonation kinetics 2350 Formaldehyde protonation rate 1518 Formate acetate dissocn protonation 2996 Formate methyl protonation rate 1518 Formate oxidn alk bromite 1524 Formate photolysis carbon dioxide anion 1150 Formation const furan tetracyanoethylene complex Formation heat cycloalkane 2302 Formation heat decafluorobiphenyl 1468 Formation heat tantalum bromide 2665 Formation thermodn sulfurous acid tautomer 454 Formic acid protonation rate 1518 Formylpropenoate Diels Alder stereochem 1399 Four component condensation cyclopeptide synthesis Free energy assocn purine mononucleotide 1986 Free energy hydroxylapatite solid soln 2662 Free energy mixing chloroform methanol 387 Free energy phosphonate phosphite 236 Free energy relation ionization sulfonyltoluene 853 Free energy solvent solute interaction 500 Free energy tantalum bromide 2665 Free energy transfer glycoxide ion 2470 Free energy transfer single ion 2476

Free energy transfer tetraphenyl carbon 2004

Free ion concn complex equil 466

Frontalin total synthesis 1475

Fructofuranose glycosidation iodination hexenopyra= nose 645

Fulvate cadmium complexation pH 1263

Fumarate diethyl electrochem trifluoromethylation

Fumaria alkaloid structure 53 Fumaritine oxide structure 53

Fumaronitrile photocycloaddn phenylcyclopropene

Furan tetracyanoethylene complex absorption spectra

Furanalkanoate 1743

Furanocoumarin mass spectra 1995

Furanose aldol condensation formaldehyde 381 Furanose xylo methyl 2818 Furanoside conformation NMR 2504 Furoquinoline 3296

Furylbenzamide Diels Alder 314 Galactal azidonitration 1244

Galactopyranosyl halide azidodeoxy 1244
Galactosamine 1244
Galate dimethylpyrazolyl aminoethanolato ligand 167
Gallate pyrazolyl methyl 139
Gallate pyrazolyl nickel complex 3107

Gallato methyl ethanolamino pyrazolyl structure 1335 Gallato methyl pyrazolyl aminoehtanolato iron 3113 Gallato nickel pyrazolyl structure 1823

Gallium ethanolaminato methyl structure 586 Gallium pyrazolyl indazolyl dimer 2520
Gallium triethyl thermal decompn. 3178
Gas chromatog luminescence quenching detector 1238

Gerardia pseudoanthoxanthin 1707

Germane halo methyl photoelectron 2278 Germanium chalcogenide deriv NMR 3253 Germanium methyl deriv carbon NMR 1426 Germylcarbodiimide bistrimethyl mass spectra 1162

Glass electron trapped 1488 Glass lithium chloride visible electron 1758

Glass temp nitrate hydrate melt 2028 Glass trapped electron spectra 197 Glow discharge oxygen atom dc 568

Glow discharge reaction rate mechanism 785 Glucofuranose stannane deriv 38

Glucose Wittig carboxymethylene 1746 Glucoside aminodeoxy reaction acetone 2978 Glycal ester enolate Claisen rearrangement 1743

Glycal nitrosochloro reaction thiol 1056 Glycerol transfer thermodn hydrogen halide 961

Glycine peptide complex correction 2538

Glycine peptide complex metal 104 Glycol ethylene lead redn 1801 Glycol monoester oxygen exchange 1531

Glycol steroid epimerization 304 Glycol water structure dielec const 608

Giycopyranoside unsatd stereoselective prepn 1746 Glycosidation azidodeoxygalactopyranosyl halide 1244 Glycosidation ethoxycarbonyloctanol disaccharide

Glycosidation ethoxycarbonyloctanol disaccharide

correction 2895 Glycosidation iodination fructofuranose hexenopyra= nose 645

Glycosidation Koenigs Knorr intermediate 2091 Glycosidation rhamnose 662

Glycoside disaccharide intermediate 2091

Glycoside ethoxycarbonyloctanol prepn anomerization

Glycoside ethoxycarbonyloctanol prepn anomerization correction 2895

Glycoside furanoside conformation 2504

Glycoxide ion free energy transfer 2470

Gold aryliminomethyl bridged platinum complex 483

Gold fluoromethanesulfonate 326 Ground oxygen atom reaction kinetics 949 Group IIB metal pyrazolato platinum 3237

Guanidine proton transfer nitrotoluene 669 Guanosine monophosphate self assocn thermodn 1986 Guanosine platinum diethylenetriamine structure 57

Gymnomitrol total synthesis 3343 Halide alkali DMSO soln model 538 Halide alkali soln viscosity 3247

Halide alkali volumetric entropy melting 2010 Halide ammonium IR hydrogen bond 2003 404

Halide hydrogen transfer thermodn glycerol 961 Halide ion free energy transfer 2476

Halo pentanedionato rhenium 1252
Halo steroid carbon 13 NMR 3069
Haloalkanamide cyclization lithium dialkylamide 1201
Halogen benzene IR Raman 1814

Halogen reaction tetrasulfur pentanitride 1286

Halopropyne ionization potential 249 Halothiophenol conformation NMR 1421 Hamamelose prepn conversion 384

Heat capacity aq electrolyte 2798 Heat capacity cycloalkane 2302

Heat capacity pyrazine polymorph 3056 Heat capacity tantalum bromide 2665 Heat capacity water THF mixt 1006 Heat combustion decafluorobiphenyl 1468 Heat dimerization benzoic acid benzene 530 Heat evapn DMSO 705 Heat formation acrylium protonated acid 3205

Heat formation hydrocarbon calcn 1772 Heat formation perfluorocyclohexane perfluorocyclo=

hexene 685 Heat fusion manganese carboxylate 151 Heat mixing alkylamine alkane 517

Heat mixing aniline benzene 2211 Heat mixing chloroform methanol 387 Heat protonation triethylenetetramine 1785

Heat soln butylamminium adamantylcarboxylate 673 Heat soln lead sulfate acid 974

Heat soln sulfate hydrate copper 1926 Heat soln sulfur dioxide 1319

Heavy water tetraethylammonium adsorption mercury 330

Hemiacetal coumarin hydrolysis intermediate 2260 Hemiacetal stereoselective oxidn 1025

Heptane butylamine vol mixing 1915 Heptane heat soln sulfur dioxide 1319

Heptanucleotide tRNA Escherichia synthesis 3140

Heptenol methyl 233 Heptenol methyl methylamino 2103

Heterocycle dichlorophenyl rotation barrier 355 Heterocycles organotellurium moessbauer correction

Heterocyclic nitrogen base assocn ferrocyanide 2079 Heterocyclic olefinic compd electrochem trifluorome= thylation 2617

Heteronuclear metal carbonyl electrochem synthesis 2196

Heteropiperazine trifluoroacetyl mass spectra 2052 Hexaaquocopper ion ligand field splitting 1926 Hexadecylpyridinium hexadecyltrimethylammonium

liq crystal interface 747

Hexadienylphosphine oxide 723 Hexafluorobenzene heat formation 1468 Hexane butylamine vol mixing 1915

Hexane electron scattering cross section 2626 Hexenopyranose glycosidation iodination fructofura= nose 645

Hexopyranoside dideoxy IR Raman 2640 Hexopyranoside thio amino deoxy 1056 Hindrance steric mixing alkane alkylamine 517 Hinesol synthesis 1579 Histidine resoln nickel macrocycle 883 Histone sequence peptide protein kinase 267 Homo steroid carbon NMR 1550 Homoestrapentaenedione hydride redn regiochem 3308 Homonor steroid carbon NMR 1550 Hydrate calcium nickel nitrate melt 2028 Hydrate clathrate dichloroethane conformation 635 Hydrate sulfate copper heat soln 1926 Hydration beryllium chloride 913 Hydration beryndin chiorde 313 Hydration entropy halide soln 3247 Hydration phthalaldehyde kinetics mechanism 506 Hydrazide cyclization epibromohydrin 3155 Hydrazine redn nitrotoluene nickel 3047 Hydrazinopyridazinophthalazine antihypertensive prepn 3320 Hydrazone oxidn 1157 Hydride phosphorus transition 2491 Hydroborate alkali hydrogen deuterium exchange 503 Hydrocarbon autoxidn propagation kinetics 2755 Hydrocarbon bonded nonbonded energy contribution Hydrocarbon butylamine vol mixing 1915 Hydrocarbon polycyclic nonalternating stability 2864 Hydroctarnine demethylation 1720 Hydrogen abstraction deoxybenzoin photolysis 2812 Hydrogen abstraction toluene ethyl 3178 Hydrogen abstraction toluene ethylpentyl 2578 Hydrogen atom reaction olefin rate 777 Hydrogen bond acid water IR 487 Hydrogen bond alc picoline mixt 2386 Hydrogen bond ammonium halide IR 2003 Hydrogen bond diol 304 Hydrogen bond ethanethiol isotope effect 1350 Hydrogen bond methoxyphenol 450 Hydrogen bond oxalate soln 876 Hydrogen bond oxime solvate 1481 Hydrogen bond paratoside IR Raman 2640 Hydrogen bond pentachlorophenol acetone 2707 Hydrogen bond phenol allyl benzyl 3005 Hydrogen bonding ammonium halide IR 404 Hydrogen clustering protonated diatomic mol 2159 Hydrogen deuterium exchange alkali tetrahydroborate 503 Hydrogen exchange isomerization toluamide 2896 Hydrogen fluoride complex mol vibration 1341 Hydrogen halide transfer thermodn glycerol 961 Hydrogen ion free energy transfer 2476 Hydrogen labeled adose 3160 Hydrogen oxalate IR Raman 876 Hydrogen sulfide addn photochem butene 2991 Hydrogen sulfide corrosion carbon steel 188 Hydrogenation ligand exchange ferrocene pyrene 933 Hydrogenation methylenesuccinic acid rhodium com= plex 180 Hydrogenation pyrrolealkanoate pyridinealkanoate 1977 Hydrogenolysis aldononitrile 3160 Hydrolysis acetal ester excess acidity 2944 Hydrolysis ammonolysis EDTA kinetics 1018 Hydrolysis benzoate steric effect 2960 Hydrolysis catalyst subtilisin kinetics 2516 Hydrolysis cyclic imidate salt 3262 Hydrolysis dioxane lignin cellulase 2612

Hydrolysis dioxolenium methoxydioxolane kinetics

Hydrolysis halophenylsulfonyl 1958

Hydrolysis kinetics coumarin ethyl acetal 2260 Hydronium protonation rate gas 1518 Hydroperoxyl oxidn ascorbate hydroquinone 3017 Hydrophilic hydrophobic interface temp isotope 478 Hydrophobic solute transfer heavy water 673 Hydropyridine dipolar cycloaddn azide 2342 Hydroquinone oxidn hydroperoxyl 3017 Hydroxide sodium polarog drop anomaly 565 Hydroxy androstadienedione total synthesis 1397 Hydroxy bridged beryllium trimer chloride 913 Hydroxyandrosteneone metab Rhizopus 436 Hydroxydimethylindanone cyclization dioxetane ener= gized 283 Hydroxyethyl group introduction 2522 Hydroxyl group rotation methoxyphenol 450 Hydroxylapatite chlorapatite solid soln soly 1919 Hydroxylapatite solid soln thermodn 2662 Hydroxylation bornyl acetate 733 Hydroxylation steroid Rhizopus 1585 Hydroxymethylation furanose 381 Hydroxymethylation ribose formaldehyde 384 Hydroxymethylnocardicin A prepn bactericide 1932 Hydroxynitrobenzofuroxan Boulton Katritzky rear= rangement 2512 Hydroxysuccinimide thallium reaction acyl chloride Hypochlorous acid MO CI SCF 1839 Imidate salt cyclic hydrolysis 3262 Imidazole thio prepn 813 Imidazole thio rearrangement 822 Imide amine cyclization bromination 3155 Imine oxidn 1157 Iminium salt prepn NMR 2876 Iminomethyl aryl platinum nitrogen donor 483 Iminophosphorane phenylcarbamoylmethyl cyclocon= densation 2696 Iminopyrimidine proton exchange Broensted 2783 Immobilized fluoride catalyst 2629 Indazolyl metal dimer 2520 Indicator phenolphthalein deriv polarog redn 1294 Indium chloro complex aq cond 702 Indium electrooxidn cobalt manganese carbonyl 2196 Indium pyrazolyl indazolyl dimer 2520 Indole alkaloid oxidn 1682 Indole ethyldihydropyridylethyl 289 Indolone indolyl acetylaminoethyl 1694 Induction period unimol reaction 1723 Inductive effect cleavage oxirane 2444 Inflammation inhibitor aminotetrahydropyridine 2981 Inosine monophosphate self assocn thermodn 1986 Insertion acetylene platinum iodide bond 2549 Insertion carbene methyl isocyanide 1229 Insertion fluorosilyl phosphine silane methanethiol Interface hydrophobic hydrophilic temp isotope 478 Interface liq crystal cationic surfactant 747 Intermediate hemiacetal coumarin hydrolysis 2260 Internal pressure melting point relation 2010 Iodide hydrogen transfer thermodn glycerol 961 Iodide oxidn alk bromite 1524 Iodide platinum bond insertion acetylene 2549 Iodide redn iron phenanthroline 2065 Iodide tetrabutylammonium nickel chloride melt 147 Iodination glycosidation fructofuranose hexenopyranose 645 Iodine atom recombination calcn 1167 Iodinium fluoroantimonate structure 968 Ion amalgam lead electrochem chronopotentiometry

Ion assocn ferrocyanide charge transfer 2079

Ion cyclotron resonance anion solvation 473

Ion cyclotron resonance borazine protonation 1751 Ion mobility aq phosphoramide 1127 Ion mol reaction acylium 3205 Ion mol reaction borazine 1751 Ion mol reaction QUISTOR 2108 Ion pair alkali phenylmethanide ether 999
Ion pair lead sulfate soly 974
Ion pair photolysis alkali anion 1792
Ion single free energy transfer 2476 Ionene 377 Ionization energy azo group 98 Ionization enol keto tautomer 1177 Ionization free energy ethylene glycol 2470 Ionization NMR mercury acetate fluoroacetate 91 Ionization phosphonate 236 Ionization potential halopropyne 249 Ionization sulfonyltoluene free energy relation 853 Ionomer supermol structure Raman 2518 Ipso nitration tolylalkanoate 2527 IR ammonium halide hydrogen bond 2003 404 IR beryllium chloride hydrate 913 IR copper 1 carbonyl hexafluoroarsenate 2714 IR ethyldimethyloxabicyclohexane configuration 2314 IR hydrogen bond acid water 487 IR hydrogen oxalate 876 IR laser pentafluoroacetone 3053 IR laser photolysis vinyl chloride 953 IR mercury chloro perchlorato phosphine 2217 IR multiphoton dissocn fluoroform 3173 IR paratoside hydrogen bond 2640 IR pentachlorophenol acetone complex 2707 IR propionate mixt 400 IR Raman benzene halogen 1814 IR selenocyanato thiocyanato complex 394
IR spectra copper sulfate 1926
IR spectra vanadium pentoxide catalyst 2464
IR spectrum autohydrolysis lignin 2603
IR UV solvated electron 591 Iron allyl reaction malonate 2790 Iron aminoethanolato nitrosyl pyrazolylgallato structure Iron arene cation 946 Iron carbonyl complex azirine reaction 1541 Iron dissoln carbon steel 188 Iron hexadienylphosphine complex 723 Iron nitrosyl pyrazolyl complex 3119 Iron phenanthroline redox halogen 2065 Iron tetraphenylporphin 1804 Iron 3 binding bromide rate 77 Isoalantolactone degrdn 213 Isobutene electron mobility 2716 Isobutene polymn cationic kinetics 2355 Isobutene radiolysis rare gas sensitized 2633 Isobutene reaction hydrogen atom rate 777 Isocyanide methyl thermal explosion 2677 Isokinetic temp oxidn acetal ozone 3041 Isolongifolene total synthesis 2249
Isomer asym alkane chromatog 367

Isomerization hydrogen exchange toluamide 2896
Isomerization kinetics bicyclohexanone 1442 Isomerization sterol cyclohexanediol 304 Isometheptene metabolite prepn 2103 Isonitrile four component cyclocondensation peptide aldehyde 3257 Isooctane heat soln sulfur dioxide 1319

Isophorone photocycloaddn solvent effect 3301

Isomerization ethylidenecyclopropylethanol 2314

Isomer platinum complex pyrimidine 526 Isomerization cyclohexene mol ion 348 Isomerization disaccharide orthoacetate 2091

Isomerization ethyl isocyanide 1229

Isoprene cyclohexadienone addn 377 Isoprenoid lecithin membrane 458 Isopropanol cosolvent hydrolysis amino acid ester

Isoquinoline alkaloid formation path 1588 Isoquinoline phthalide alkaloid 1545 1598 Isothiazole thiophenacylidene 207

Isothiocyanato borane reaction methyl thioborate

Isothiocyanatoalkyl selenide 2145

Isotope effect benzylphenyldimethylammonium substitution 1354

Isotope effect deuterium substitution 1089 Isotope effect methyluracil bromination 626 Isotope effect protonation nitrotoluene 669 Isotope effect vapor pressure ethanethiol 1350 Isotope selectivity irradn fluoroform 3173

Isotope water hydrophobic hydrophilic interface 478 Juvenile hornone epoxytridecadienoate prepn 3145
Keto ester enolization equil 1177
Keto steroid carbon 13 NMR 3069
Ketone azido triphenylphosphine condensation 2696

Ketone cyclic redn diaxial interaction 2848 Ketone detn degree enolization 797 Ketone di conversion unsatd 1431

Ketone diazo norbornane 1656 Ketone enolization kinetics equil 1177 Ketone enolization thermodn 240 Ketone fluoro ammonium ESR 600 Ketone halo carbon NMR 3069 Ketone hydrazone oxidn 1157

Ketone methyl vinyl electrochem trifluoromethylation

Ketone partial molal vol 2585 2892 Ketone sensitized photolysis acetylacetonatocopper 8 Ketone styryl acyclic mass spectra 2908

Ketone styryl redn phenylethanol 218 Ketone trapping formaldehyde oxide 3272 Ketone triplet quenching alkene 342

Ketoxime styryl acyclic mass spectra 2908 Ketyl isomerization 304

Ketyl radical photolysis deoxybenzoin 2812 Khusimone total synthesis 708 Kinase protein substrate peptide histone 267

Kinetics azafluorene azafluorenone methylation 1506 Kinetics bromination uracil 626

Kinetics carbene methyl isocyanide 1229 Kinetics cationic polymn isobutene 2355

Kinetics copper protoporphyrin 2916 Kinetics dissocn acetylene platinum complex 2549 Kinetics enolization equil LFER 1177

Kinetics exchange chromium benzylchromium 1233 Kinetics exchange manganese NADP 2434

Kinetics ground oxygen atom reaction 949 Kinetics hydrolysis coumarin ethyl acetal 2260 Kinetics isomerization bicyclohexanone 1442 Kinetics mechanism hydration phthalaldehyde 506

Kinetics photolysis methylbutene pentene 863 Kinetics reaction excess acidity 2944

Kinetics thermolysis arylmethylphenyldiazobutene mechanism 1403 Kochi reaction cyclohexanecarboxylic acid 1257

Koenigs Knorr glycosidation intermediate 2091 Koenigs Knorr glycosidation intermediate correction 2895

Kolmogoroff Avrami theory electro crystn 1304 Labeled hydrogen carbon adose 3160

Lactam 1945 Lactam antibiotic dethio analog 222 227

Lactam haloalkyl cyclization 1201

Lactone 3272 Lactone sesquiterpene degrdn 213 Lactonization ethyl coumarinate kinetics 2260 Lanthanide complex cyclohexanol conformation 1080 Lanthanide NMR chiral benzhydrol deriv 1446

Lanthanum chloride density heat capacity 2798 Lappaconidine carbon 13 NMR 1652 Laser IR pentafluoroacetone 3053 Laser IR photolysis vinyl chloride 953

Laser irradn fluoroform 3173 Laser photolysis ammonia nitrogen enrichment correc= tion 796

Laser radiation cyclobutanone 1511 Laureline demethylation 1720

Lead complex ethylenediaminediacetic acid thermodn

Lead ion amalgam electrochem chronopotentiometry

Lead pyridinedicarboxylato aqua crystal structure 2498

Lead sulfate soly sulfuric acid 974

Lead triethylenetetramine complex thermodn 1785 Lecithin isoprenoid membrane 458

LFER acidity aniline 3065 LFER basicity enolization acetophenone 2952 LFER benzylphenyldimethylammonium substitution thiophenoxide 1354

LFER enolization kinetics equil 1177 LFER ethylpentyl abstraction toluene 2578 LFER hydration phthalaldehyde Broensted 506 LFER methyluracil bromination 626 LFER partial molal vol 2585

LFER proton exchange pyrimidine 2783 LFER protonation thiohydantoin 1980

LFER thermolysis aryl methyl phenyldiazobutene

LFER thermolysis oxadiazolinone 2681 LFER transition state structure 255 Ligand exchange hydrogenation ferrocene pyrene 933 Ligand field splitting hexaaquocopper ion 1926 Ligand nitrogen donor aryliminomethyl platinum 483 Ligating property palladium platinum pyrazolato

Light scattering lyotropic liq crystal 1108 Lignan THF NMR conformation 441 Liq crystal cationic surfactant interface 747 Liq crystal lyotropic light scattering 1108 Lithiation pyridobenzothiazine 237 Lithium cesium sulfite structure 899

Lithium chloride aq activity 2542 Lithium chloride deuterium oxide luminescence 1488 Lithium chloride glass visible electron 1758 Lithium dialkylamide haloalkanamide cyclization 1201

Lithium perchlorate mercury capacitance DMF 2268 Lucidine B structure 1105 Luciduline total synthesis 1631

Luminescence lithium chloride deuterium oxide 1488 Luminescence quenching detector gas chromatog 1238 LUMO formylpropenoate Diels Alder 1399

Lycolucine structure 1105 Lycopodium alkaloid 1105

Lycopodium megastachine structure alkaloid 1691 Lyotropic liq crystal light scattering 1108

Lysine alkaloid Lythraceae Decodon 1606 Lythraceae alkaloid formation phenylalanine 1615 Lythraceae alkaloid lysine Decodon 1606

Macrocycle nickel stereoselectivity amino acid 883 Macrocyclic pyrazole system 1897 Magnetic CD phthalocyanine 1111

Magnetic field fluorescence irradiated perfluorocarbon

Magnetic relaxation manganese pyridoxal phosphate

Magnetic relaxation nucleic acid base 1075 Magnetic relaxation substituent effect 1224 Magnetic susceptibility cumene dioxane 678 Malate tungsten complex 773 Maleate Diels Alder furylbenzamide 314

Maleate diethyl electrochem trifluoromethylation

Maleic anhydride Diels Alder furylbenzamide 314 Maleimide ethyl electrochem trifluoromethylation 2617

Maleonitrile photocycloaddn phenylcyclopropene

Malonate reaction iron allyl 2790 Manganese aminoethanolato nitrosyl pyrazolylgallato complex 3113

Manganese carbonyl methylpyrazolylaminoethanolatog= allate 167

Manganese carboxylate phase transition thermodn

Manganese complex ethylenediaminediacetic acid thermodn 113

Manganese ESR molybdenum oxide pumice 2779
Manganese methylpyrazolylgallate carbonyl 139
Manganese NADP complex 2434 Manganese pyridoxal phosphate NMR 1050

Manganese triethylenetetramine complex thermodn

Mannopyranoside stannane deriv 38 Marcus equation enolization kinetics 1177 Masked ethanol carbanion thiomalonate 2522 Mass spectra acyclic styryl ketoxime 2908 Mass spectra acylium reaction water 3205 Mass spectra dihydro pyrazinone 2696

Mass spectra fragmentation conjugate acid 2827 Mass spectra furanocoumarin 1995

Mass spectra macrocyclic pyrazole system 1897 Mass spectra metallole phosphole 335 Mass spectra methylsilylcarbodiimide 1162 Mass spectra trifluoroacetyldiketopiperazine 2037

Mass spectroscopy quadrupole ion storage 2108

Mecambroline prepn deoxygenation 1720 Mechanism allyl isocyanide isomerization 2482 Mechanism bromination uracil 626

Mechanism carbene methyl isocyanide 1229 Mechanism chlorodecarboxylation cyclohexanecarbox= ylic acid 1257

Mechanism diazonorbornanone decompn 1668 Mechanism hydrolysis coumarin ethyl acetal 2260 Mechanism norbornene polymn catalyst 2022 Mechanism reaction current modulation 785

Mechanism recombination calcn 1167 Mechanism thermolysis arylmethylphenyldiazobutene kinetics 1403

Megastachine Lycopodium structure alkaloid 1691 Melt binary viscosity density 147 Melting point internal pressure relation 2010 Membrane lecithin isoprenoid 458 Mercaptan butyl photosensitizer butene isomerization

Mercaptoethanol alaninesulfinic acid redn 2073 Mercaptopropanol conformation NMR 2426 Mercury acetate phosphine Raman IR 83 Mercury acetato fluoroacetato phosphine complex 91 Mercury aryliminomethyl bridged platinum complex

483 Mercury chloro perchlorato phosphine complex 2217 Mercury cyano phosphine complex 762 Mercury DMF double layer capacitance 2268 Mercury electrode adsorption tetraethylammonium

bromide 330

Mercury phenylphosphine thiocyanato structure 2555 Mercury polarog drop anomaly 565

Mercury selenocyanato thiocyanato complex 394 Merostabilization diphenylmethylene ESR 2652 Mesophase interface temp isotope water 478 Metal alkali anion flash photolysis 1792

Metal binding pyridoxine carbon NMR 2118 Metal cluster MO calcn 1826

Metal triethylenetetramine complex stability 1785 Metallole mass spectra 335

Metalloporphyrin formation kinetics 2916

Methallyl metal carbonyl methylpyrazolylaminoethano= latogallate 167

Methallyl molybdenum tungsten methylpyrazolylgallate

Methane deriv vibration energy level 2321 Methanethiol insertion fluorosilyl 994 Methanol heat mixing chloroform 387 Methanol protonation rate 1518

Methanolysis rearrangement silyltritylcytidine 2230 Methionine resoln nickel macrocycle 883

Methoxide fluoro solvation carboxylic acid 473 Methoxybenzyl chloride solvolysis kinetics 2646

Methoxycycloalkene oxide cleavage 2444 Methoxydinitrobenzofuroxan demethylation complexa tion 494

Methoxyphenol hydroxyl group rotation 450 Methoxythiophenol sulfhydryl group rotation 450

Methoxytropone NMR 1949 Methyl bromamine photoelectron 1279

Methyl ether formate protonation rate 1518 Methyl ether hydrogen fluoride vibration 1341

Methyl gallato ethanolamino pyrazolyl structure 1335 Methyl gallato pyrazolyl aminoehtanolato iron 3113

Methyl gallium ethanolaminato structure 586 Methyl germanium deriv carbon NMR 1426 Methyl group solvolysis benzoate 2960

Methyl isocyanide carbene kinetics 1229 Methyl isocyanide thermal explosion 2677 Methyl palladium platinum NMR 958

Methyl phosphate soln sulfur dioxide 1319 Methyl thioborate reaction isothiocyanato borane

Methylamine boron complex 1122

Methylation azafluorene 1506 Methylation ethene electrochem oxidn acetate 990

Methylation pyrazolol 904 Methylbutene photolysis kinetics 863

Methylbutene photolysis mechanism 870 Methylpyrazolylgallate molybdenum carbonyl 139 Methylpyrazolylgallatonickel structure 1823

Methylpyriadine proton exchange 2783
Methylsilylcarbodimide mass spectra 1162
Methylsilylcarbodimide mass spectra 1162 Methyltrisdimethylpyrazolylgallate ligand 139

Methyluracil bromination kinetics mechanism 626 Mexicanolide Xylocarpus 3088

Micellar superstructure liq crystal 1108
Michael addn pyrazolol 904
Michael catalyst immobilized fluoride 2629
Migration ratio ring expansion steroid 1557
Minima host allumine productions 1577

Mixing heat alkylamine alkane 517 Mixing heat aniline benzene 2211
Mixing heat chloroform methanol 387
Mixing vol alc picoline 2386
Mixing vol hydrocarbon butylamine 1915
Mixt diat rotational vibrational relaxation 1115

MO acylium protonated acid 3205 MO assocn propionate 400

MO azo group 98 MO chlorine hydroxide hypochlorous acid 1839 MO cycloaddn pyrazolol 904

MO dihydrocyanobenzobarrelene photorearrangement

MO dimethoxymethane anomeric effect 424

MO hybrid lone pair PMO 729

MO oxadiazolinone transition state 2681 MO protonated diatomic mol cluster 2159

MO protonation borazine 1751 MO stereochem Diels Alder 2564 MO Xalpha scattered wave cluster 1826

Mobility ion aq phosphoramide 1127 Model alkali halide DMSO soln 538 Modulation current reaction rate detn 785

Moessbauer organotellurium heterocycles correction

Mol assocn chloroform methanol 387

Mol assocn cytidine polarog 1136 Mol assocn propionate mixt 400 Mol complex reaction const 1418

Mol diatomic cluster protonated stability 2159 Mol interaction aniline benzene mixt 2211

Mol ion isomerization cyclohexene 348 Mol orientation mixing alkane alkylamine 517

Mol reorientation triazine NMR 128 Mol rotation adamantane 1224

Mol structure aminomesityloxybenzoate 2767 Mol structure benzil thiosemicarbazonatocopper 603

Mol structure cadmium cytosine chloro 1372 Mol structure cobalt pyridine fluorophosphate 135

Mol structure condensed oxazolone 157 Mol structure copper phenylenebisbenzothiazole chloro

Mol structure dicyclohexanotetroxecane 2154 Mol structure diphosphatetrasilacyclohexane deriv

Mol structure dithiametacyclophane 3080

Mol structure gallium ethanolaminato methyl 586

Mol structure iron nitrosyl pyrazolyl 3119
Mol structure iron pyrazolylgallato nitrosyl 3113
Mol structure lead pyridinedicarboxylato dimer 2498

Mol structure mercury chloro phosphine 2217 Mol structure methylpyrazolylgallatonickel 1823 Mol structure molybdenum carbonyl cyclodiphospha-tetrasilahexane 1909 Mol structure molybdenum ethanolaminogallato allyl

Mol structure Neisseria polysaccharide antigen 2902 Mol structure nickel morpholinecarbodithioato 2379 Mol structure nickel pyrazolyl gallate 3107 Mol structure oxadiazinium deriv bromide 3157

Mol structure phacidin 1451 Mol structure platinum diethylenetriamine guanosine

Mol structure thiocyanato phenylphosphine mercury 2555

Mol structure tungsten pyrazolyphosphine carbonyl

Mol vibration hydrogen fluoride complex 1341 Mol vol butylamminium adamantylcarboxylate 673 Mol wt distribution autohydrolysis lignin 1141 Molal vol partial alkane alkanol 2887

Molal vol partial org compd 2585 2892 Molar vol nitrate hydrate melt 2028

Molybdenum carbonyl cyclodiphosphatetrasilahexane structure 1909 Molybdenum carbonyl methylpyrazolylaminoethanolat=

ogallate 167 Molybdenum ethanolaminogallato allyl carbonyl struc=

ture 1335 Molybdenum methylpyrazolylgallate carbonyl 139 Molybdenum oxide pumice ESR manganese 2779 Monosaccharide octodiose 924

Monothioacetylacetone chelate extn solvent 3190 Morpholinecarbodithioato nickel structure 2379

Multiphoton dissocn IR fluoroform 3173

NAD binding phenylalanine tryptophan 2297 NADP manganese complex 2434 Naphthalene decahydro conformational inversion 803 Naphthalenone alkyl intramol alkylation 1064 Naphthalenone trimethyl 377 Naphtholphthalein polarog redn 1294 Neamine thio analog 1056 Neighboring group cleavage oxirane 2444 Neisseria polysaccharide antigen mol structure 2902 Nickel calcium nitrate hydrate melt 2028 Nickel chloride tetrabutylammonium iodide melt 147 Nickel extn monothioacetylacetone 3190 Nickel gallato pyrazolyl structure 1823 Nickel macrocycle stereoselectivity amino acid 883 Nickel morpholinecarbodithioato crystal structure Nickel peptide complex metal 104 Nickel pyrazolato bridged palladium platinum 3237 Nickel pyrazolato bridged palladium platinum 3237 Nickel pyrazolyl bridged nitrosyl 3090 3099 Nickel pyrazolyl gallate complex 3107 Nickel redn nitrotoluene hydrazine 3047 Nickel selenocyanato thiocyanato complex 394 Nickel silver thiocyanate coordination structure 3061 Nickel toxicity prevention rat penicillamine 1411 Nicotinamide transition metal complex 394 Nitramine photolysis solvent effect 2936 Nitrate nickel calcium hydrate melt 2028 Nitration azido galactal 1244 Nitration tolylalkanoate tolylbutanol 2527 Nitride sulfur phosphine imidato 3171 Nitride sulfur reaction halogen 1286 Nitroaniline deriv UV 2167 Nitrobenzene alk oxidn autohydrolysis lignin 2599 Nitrobenzene deriv electronic transition 2167 Nitrobenzene NMR butylammonium bromide 835 Nitrobenzenesulfenyl chloride addn allene 119 Nitrogen cluster protonated stability 2159 Nitrogen donor ligand aryliminomethyl platinum 483 Nitrogen enrichment ammonia laser photolysis correc= tion 796 Nitrogen silicon double bond 1162 Nitromethane heat soln sulfur dioxide 1319 Nitroso alkenyl transannular cyclization 2923 Nitrosocarbonyl cyclopentadiene cycloaddn 1712 Nitrosyl chloride addn stereochem 2923 Nitrosyl cobalt iron pyrazolyl complex 3119 Nitrosyl iron aminoethanolato pyrazolylgallato struc= Nitrosyl molybdenum tungsten methylpyrazolylgallate

Nitrosyl nickel pyrazolyl gallate 3107 Nitrotoluene proton transfer tetramethylguanidine Nitrotoluene redn hydrazine nickel 3047 Nitrous oxide dissocn rate calcn 1731 Nitrous oxide photolysis oxygen reactivity 949 Nitrous oxide reaction carbon monoxide 320 Nitrous oxide redn carbon monoxide 718 Nitroxide piperidine thermolysis 2834 NMR anhydroarabinosyluracil 2191 NMR aq purine mononucleotide 1986 NMR asym alkane 367 NMR benzodithiepin conformation 3221 NMR benzoxazole structure reactivity 937 NMR camphanediol configuration 318 NMR carbon benzyl cyanide 1274 NMR carbon dihydrothiophene 131 NMR carbon ethyldimethyloxabicyclohexane configura= tion 2314

NMR carbon germanium methyl deriv 1426

Nitrosyl nickel pyrazolyl bridged 3090 3099

139

NMR carbon homonor steroid 1550 NMR carbon methoxy tropone 1949 NMR carbon oxazole deriv 3168 NMR carbon phorbol ester 2071
NMR carbon 13 diterpenoid alkaloid 1652
NMR carbon 13 halo keto steroid 3069
NMR chiral benzhydrol deriv lanthanide 1446 NMR cholesteryl ester phosphatidylcholine 2364 NMR conformation allylphenol 3005 NMR conformation chloroethane clathrate 635 NMR conformation furanoside 2504 NMR conformation phenyl ether 2967 NMR conformational inversion Decalin 803 NMR coumarin chromene 1377 NMR cyclic phosphoramidate delocalization 21 NMR diazonorbornanone 1656 NMR dithiametacyclophane 3080 NMR fluorine benzotrifluoride 807 NMR germanium chalcogenide silicon deriv 3253 NMR halothiophenol conformation 1421 NMR heterocycle dichlorophenyl 355 NMR iminium salt 2876 NMR interface liq crystal surfactant 747 NMR ionization mercury acetate fluoroacetate 91 NMR labeled aldose 3160 NMR macrycyclic pyrazole system 1897 NMR manganese pyridoxal phosphate 1050 NMR mercury chloro perchlorato phosphine 2217 NMR metal binding pyridoxine carbon 2118 NMR metal dimer 2520 NMR methylenebenzocycloalkene conformation 3028 NMR NADP manganese complex 2434 NMR nitrobenzene butylammonium bromide 835 NMR norcholestane cholestene 27 NMR oxime solvate 1481 NMR phosphorane phosphine deriv 1903 NMR phosphorus selenide solvation 754 NMR phosphorus selenide solvation correction 2847 NMR platinum palladium complex 958 NMR pyrazoloazepinone 3034 NMR pyridinecarboxaldehyde oxime 2135 NMR pyridinium anisidinium carboxylate salt 2140 NMR reorientation correlation function 2329 NMR rotation barrier vinyl amide 2239 NMR sucrose synthesis intermediate 653 NMR sugar stannane deriv 38 NMR THF lignan conformation 441 NMR triazine mol reorientation 128 Nocardicin A hydroxymethyl prepn bactericide 1932 Nocardicinic acid phenylacetyl 1932 Nojigiku alc abs configuration 742 Nomilin acetoxydihydro Xylocarpus 3088 Nonalternating polycyclic hydrocarbon stability 2864 Nonanoylpyrancarboxaldehyde 1451 Nonaq solvent surface desorption salt 856 Nonbonded energy contribution hydrocarbon 1772 Nor steroid carbon NMR 1550 Norbornanone diazo decompn 1668 Norbornene polymn catalyst mechanism 2022 Norbornyl chloride thermal dehydrochlorination 2621 Norcardicin A analog 1939 Norcardicinic acid hydroxymethyl cyclization 1939 Norcatharanthine prepn coupling vindoline 2572 Norcholestane NMR 27 Normal coordinate trisilylamine 1779 Normal mode analysis unimol reaction 1723 Nortricyclene halo cleavage deuteration 2885 Notholaena affinis dihydroxytetramethoxyflavone NRCC journals 1929-79 semicentennial v Issue 13 Nuclear spin fluoroform proton coupling 1877

Nucleic acid base magnetic relaxation 1075

Nucleophile cleavage oxirane 2444

Nucleophile reaction allyliron complex 2790

Nucleophile reaction methoxydinitrobenzofuroxan 494

Nucleophile sulfur phenyltrichloroethanol 444 Nucleophilic substitution arenecyclopentadienyliron cation 946

Nucleophilic substitution steric effect 2185

Nucleophilic substitution sulfide chlorinolysis 3193 Nucleophilic substitution trispentafluorophenylphosph= ine 1011

Nucleophilicity alkoxide phenoxide 2747

Nucleoside adenine chlorination thionyl chloride 274 Nucleoside adsorption mol assocn 1136

Nucleoside silyl protecting group 2230 Nucleotide hepta tRNA Escherichia synthesis 3140

Nucleotide silyl protecting group 2230

Octane butylamine vol mixing 1915 Octenopyranoside 924

Octodiose monosaccharide 924 Olefin addn benzeneselenenyl thiocyanate 2145

Olefin carboxylic acid 3272

Olefin reaction hydrogen atom rate 777

Olefinic ester ketone 1431 Olefinic ester ketone correction 2895

Oligoribonucleotide prepn silyl protecting group 2230 Oligoribonucleotide synthesis protective group 3140 Oligosaccharide phthalimido protective group 662

Oligosaccharide sucrose intermediate 653

Oligosaccharide sucrose synthesis 645 Optical charge transfer ferrocyanide complex 2079

Optical rotation pyrazoline substituent 360

Org compd volumetric entropy melting 2010 Org synthesis alc dehydrogenase deriv 2533 Organotellurium moessbauer heterocycles correction

Orientation mol mixing alkane alkylamine 517 Ortho ester hydrolysis kinetics 1531 Ortho substituent loss styryl ketoxime 2908

Orthoacetate disaccharide prepn isomerization 2091

Orthoacetate disaccharide prepn isomerization correc= tion 2895

Orthocarbonate tetraaryl formation phenoxycopper

Orthoformate triaryl formation phenoxycopper 890 Osmotic coeff aq lithium chloride 2542

Oxaazabicycloheptene 1712

Oxaazabicyclooctene 44 Oxacarbene formation bridged cyclobutanone 2669

Oxadiazinium bromide 3155 Oxadiazinium deriv bromide structure 3157

Oxadiazolinone thermal decompn 2681

Oxalate hydrogen IR Raman 876

Oxathiazepine Pummerer product 2412

Oxatricycloundecenone crystal structure 2669 Oxazole deriv carbon NMR 3168 Oxazole structure reactivity NMR 937 Oxazoline ring cleavage acid 2876

Oxazolone condensed x ray 157 Oxide deuterium lithium chloride luminescence 1488

Oxide mercury polarog drop anomaly 565

Oxide molybdenum pumice ESR manganese 2779
Oxide nitrous photolysis oxygen reactivity 949
Oxidn acetal ozone isokinetic temp 3041
Oxidn alc diaxial interaction 2848
Oxidn alc banatic paragraphs

Oxidn alc phenyltriazoledione 2727

Oxidn ascorbate hydroquinone hydroperoxyl 3017

Oxidn autohydrolysis lignin alk nitrobenzene 2599

Oxidn azafluorene 1506 Oxidn bornyl acetate 733

Oxidn catalyst chloropalladate aq ethylene 982 Oxidn diazirine thermal decompn 1299

Oxidn diglyme 304

Oxidn electrochem acetate methylation ethene 990 Oxidn electrochem electrosorbed selenium tellurite

Oxidn imine hydrazone 1157

Oxidn imine hydrazone 1157
Oxidn indole alkaloid 1682
Oxidn iron phenanthroline bromine chlorine 2065
Oxidn potential phenylcyclopropane 2098
Oxidn product Wessely Diels Alder 2853

Oxidn pyranoindole 3296

Oxidn pyrazolol 904

Oxime benzylic debenzylation 1939
Oxime pyridinecarboxaldehyde NMR 2135
Oxime solvate butylammonium fluoride 1481

Oximinophenylacetohydroxamic acid 444 Oxirane cleavage kinetics dilatometer 2444

Oxirane cyclopropane diphenyl voltammetry 2098
Oxo allyl system 3292
Oxo ester conversion unsatd 1431
Oxoaporphine alkaloid Abuta 1642
Oxobenzomorphan 1861 1866

Oxobenzomorphan intermediate 1852 Oxobutenoate Diels Alder stereochem 1399

Oxocarbacephem 614

Oxocaroacephen 614
Oxoprotoemetine Pictet Spengler cyclization 1679
Oxygen atom reaction propanol 1269
Oxygen cluster protonated stability 2159
Oxygen exchange glycol monoester 1531

Oxygen phosphorus luminescence chromatog detector 1238

Oxygen reactivity photolysis nitrous oxide 949

Oxymercuration cyclization vinylcyclopropylethanol

Ozone oxidn acetal isokinetic temp 3041 Ozonide formation thermolysis 3272

Ozonolysis vinyl acetate 3272 Pair ion pair alkali phenylmethanide 999

Palladium amino acid CD 62

Palladium aryliminomethyl bridged platinum complex

Palladium catalyst polymn norbornene 2022 Palladium chloride ethylene aq equil 982 Palladium diamine CD 67

Palladium fluorosulfato complex 2058

Palladium methyl complex NMR 958

Palladium platinum complexes pyrazolato binuclear

correction 796

Palladium pyrazolato ligating property 3237 Palladium pyrazole complex 2986 Paratoside IR Raman hydrogen bond 2640

Partial molal vol alkane alkanol 288

Partial molal vol org compd 2585 2892

Penicillamine toxicity prevention rat nickel 1411

Penicillin precursor aminoadipylcysteinylvaline 1388

Pentachlorophenol acetone IR complex 2707
Pentadiene methyl mol ion isomerization 348

Pentafluoroacetone laser IR 3053

Pentane electron scattering cross section 2626 Pentanediol enzyme oxidn catalyst 1025

Pentanedionato chloro rhenate 1252

Pentasulfur hexanitride 1286

Pentene photolysis kinetics 863 Peptide complex equil 104

Peptide complex equil correction 2538

Peptide histone sequence protein kinase 267 Perchlorate platinum diethylenetriamine guanosine

structure 57

Perchlorato mercury chloro phosphine complex 2217

Perfluoroarom mass spectra 335 Perfluorobenzene resonance energy 685 Perfluorobiphenyl fluorescence magnetic field 3023

Perfluorocarbon irradiated fluorescence magnetic field

Perfluorocyclohexane enthalpy combustion 685 Perfluorocyclohexene heat combustion 685 Perfluoronaphthalene fluorescence magnetic field 3023

Peroxide butyl trifluoroacetaldehyde pyrolysis 2201 Peroxide polymeric safety 3272

Peroxy radical silyl stannyl 2761 pH cadmium complexation fulvate 1263

pH titrn complex equil calcn 466 Phacidin mol structure 1451

Phase change electrode surface electrocrystn 1304 Phase transfer catalysis cyclopropane correction 2803

Phase transition potassium dichromate 2703 Phase transition thermodn manganese carboxylate

Phenanthridinium diamino bis 2305 Phenanthroline iron redox halogen 2065 Phenol alkyl chlorination 552

Phenol alkylation tetraethylammonium fluoride 1887

Phenol allyl benzyl hydrogen bond 3005 Phenol amino structure NMR 937 Phenol methoxy rotation hydroxy 450

Phenol pentachloro complex acetone IR 2707 Phenol polymn cocatalyst 2355 Phenolphthalein deriv indicator polarog redn 1294 Phenoxide alkoxide nucleophilicity 2747

Phenoxy copper reaction carbon tetrachloride 890 Phenoxyl radical reaction copper complex 890 Phenyl arsenic boron transfer thermodn 2476 Phenyl compd fluorinated photoelectron 2256

Phenyl ether conformation NMR 2967 Phenyl fluoro heat combustion formation 1468

Phenylalanine alkaloid formation Lythraceae 1615 Phenylalanine binding NAD 2297 Phenylcyclopropane oxidn potential 2098

Phenylcyclopropene photocycloaddn fumaronitrile maleonitrile 1037

Phenylenebisbenzothiazole cobalt copper zinc complex

Phenylenebisbenzothiazole copper chloro structure

Phenylethanol redn styryl ketone 218 Phenylfuran electron donating prop 2337 Phenylglycine resoln nickel macrocycle 883 Phenylmethanide alkali ion pair ether 999 Phenylphosphine thiocyanato mercury structure 2555 Phenylphospine tungsten carbonyl crystal structure

Phenylpropene addn benzeneselenenyl thiocyanate

Phenylsulfonylethyl thioacetate hydrolysis dimerization 1206

Phenyltriazoledione oxidn alc 2727 Phenyltrichloroethanol sulfur nucleophile 444

Phonon electron interaction glass 197 Phorbol carbon NMR 2071

Phosphate enol coupling cuprate 1431 Phosphate extn chromium sulfate 3011

Phosphate fluoro potassium structure 886 Phosphate fluoro pyridinecobalt crystal structure 135 Phosphate pyridoxal manganese NMR 1050 Phosphatidylcholine cholesteryl ester NMR 2364 Phosphine acetato fluoroacetato mercury complex 91

Phosphine alkoxy fluoro 1903 Phosphine aryliminomethyl platinum heterometal

complex 483 Phosphine cyano mercury complex 762 Phosphine imidato sulfur nitride 3171 Phosphine insertion fluorosilyl 994

Phosphine mercury acetate IR Raman 83 Phosphine mercury chloro perchlorato complex 2217 Phosphine mercury transition metal complex 394 Phosphine pentafluorophenyl nucleophilic substitution

Phosphine pyrazolato platinum palladium ligand 3237 Phosphine silyl molybdenum crystal structure 1909

Phosphine tertiary rhodium complex 180 Phosphite phosphonate tautomerization 236

Phosphole mass spectra 335 Phosphonate phosphite tautomerization 236 Phosphonoalanine 3216

Phosphonopyruvate prepn reductive amination 3216 Phosphoramidate cyclic NMR delocalization 21

Phosphoramide aq ion mobility 1127

Phosphorane alkoxy fluoro 1903 Phosphorescence benzylidenaniline luminescence 2539 Phosphorescence thiochromone thiochromanone oxide

Phosphorin deriv crystal mol structure 1273 Phosphorinene nickel complex 723 Phosphorinenium phenyl salt 723

Phosphorus acid hydrogen bond 487

Phosphorus carbon coupling phosphoramidate 21 Phosphorus hydride deuteride transition 2491

Phosphorus hydrogen bond insertion fluorosilyl 994 Phosphorus oxygen luminescence chromatog detector 1238

Phosphorus selenide solvation NMR 754 Photochem addn butene hydrogen sulfide 2991 Photocycloaddn isophorone solvent effect 3301 Photocycloaddn phenylcyclopropene fumaronitrile maleonitrile 1037

Photoelectron allylic alc ether 1890 Photoelectron bromamine methyl 1279 Photoelectron fluorinated phenyl compd 2256 Photoelectron germane halo methyl 2278

Photoelectron spectra thiochromanone thiochromone Photoenolization solvent effect isophorone 3301

Photoisomerization butene 2991
Photolysis acetylacetonatocopper sensitized ketone 8

Photolysis bromosuccinimide 1967 Photolysis deoxybenzoin radical formation 2812

Photolysis diarylcadmium 1923 Photolysis dihydrocyanobenzobarrelene rearrangement regioselectivity 2804

Photolysis flash alkali metal anion 1792 Photolysis formate carbon dioxide anion 1150 Photolysis IR multiphoton fluoroform 3173 Photolysis methylbutene pentene kinetics 863 Photolysis nitramine solvent effect 2936

Photolysis nitrous oxide oxygen reactivity 949 Photolysis propene methylbutene mechanism 870

Photolysis protonation cyclohexanone 1442 Photolysis thermolysis pyrazole 1186 Photolysis vinyl chloride IR laser 953

Photoprodn anion radical adduct 1150 Photoredn quinone 2971

Phthalaldehyde hydration kinetics mechanism 506 Phthalideisoquinoline alkaloid 1545 1598

Phthalimido protective group oligosaccharide 662 Phthalocyanine absorption magnetic CD 1111 Phthalocyanine pigment analysis trace metal 2546

Phytanate lecithin membrane 458 Phytol lecithin membrane 458 Picoline alc vol mixing 2386
Picolinic acid decarboxylation kinetics 1098

Picrate arsenic pheny soly 2476 Pictet Spengler cyclization oxoprotoemetine 1679 Pigment azacyclopentazulene coral 1707

Pigment phthalocyanine analysis trace metal 2546 Pipecolic acid lysine Decodon 1606

Piperazine trifluoroacetyldiketo mass spectra 2037

Piperidinealkanoic acid 1977 Piperylene addn cyclohexadienone 377 Platinate fluorosulfato palladium 2058 Platinum amino acid CD 62 Platinum aryliminomethyl nitrogen donor ligand 483 Platinum complex pyrimidine isomer 526 Platinum complexes pyrazolato binuclear palladium correction 796 Platinum diamine CD 67

Platinum diethylenetriamine guanosine crystal struc= ture 57

Platinum iodide bond insertion acetylene 2549 Platinum methyl complex NMR 958
Platinum pyrazolato ligating property 3237
Platinum pyrazolato ligating property 3237
Platinum pyridine chloro bridged complex 682
PMO MO hybrid lone pair 729
Polar effect ethylpentyl abstraction toluene 2578
Polar effect ethylpentyl abstraction toluene 2578 Polarizability aq glycol structure 608 Polarog anomaly mercury drop 565 Polarog redn anthrapurpurin complexon 3243
Polarog redn phenolphthalein deriv indicator 1294
Polycyclic nonalternating hydrocarbon stability 2864
Polyethylene mercury polarog drop anomaly 565 Polymeric peroxide safety 3272 Polymn dipyrazolylmethane 1897 Polymn uplyzaolynnetranie 1897 Polymn norbornene catalyst mechanism 2022 Polymorphism tert butyl chloride Raman 846 Polysaccharide antigen Neisseria mol structure 2902 Porphyrin iron complex 1804 Potassium adamantylcarboxylate aq cond 673 Potassium dichromate phase transition 2703 Potassium fluorophosphate structure 886

Potassium hexacyanoferrate density heat capacity Potassium perchlorate mercury capacitance DMF

2268 Potassium picrate soly 2476 Potassium vanadia catalyst active site 2464 Potebniamyces antibiotic structure 1451 Potential alkali halide DMSO soln 538 Potential energy Rydberg state amidogen 3182 Potential energy triazine crystal 128 Potential oxidn phenylcyclopropane 2098 Potential zero charge mercury DMF 2268 Pressure internal melting point relation 2010 Pressure Raman trioxane 2869 Pressure thermal coeff app 3135
Progesterone halo carbon NMR 3069
Propagation autoxidn hydrocarbon kinetics 2755 Propanol decompn catalyst active site 2464 Propanol picoline vol mixing 2386

Propanol reaction oxygen atom 1269 Propanol sulfur deriv conformation 2426 Propargyl alc reactivity solvated electron 839 Propene addn selenenyl stereochem 2180 Propene photolysis mechanism 870 Propene reaction hydrogen atom rate 777 Propionate mixt IR 400

Propionic acid solvation fluoromethoxide 473 Propylamine radiolysis solvated electron 2013 Propylammonium perchlorate mercury capacitance

DMF 2268 Propylene carbonate soln sulfur dioxide 1319

Propyne halo ionization potential 249 Protecting group butyldimethylsilyl nucleoside nucleo=

Protective group oligoribonucleotide synthesis 3140 Protective group phthalimido oligosaccharide 662 Protein kinase substrate peptide histone 267 Protein tryptophan bromosuccinamide fluorescence quenching 1471

Protoberberine formation path 1588

Proton exchange methylpyrimidine 2783 Proton nuclear spin fluoroform coupling 1877 Proton shift protonated acid 3205 Proton transfer carbonyl compd 1177 Proton transfer nitrotoluene tetramethylguanidine

Protonated acid heat formation 3205 Protonated diatomic mol cluster stability 2159 Protonation carboxylic acid structure fragmentation Protonation cyclohexanone photolysis 1442

Protonation effect cleavage oxirane 2444 Protonation ester gas phase 2996 Protonation formaldehyde kinetics 2350 Protonation methylbenzamide exchange isomerization

Protonation MO borazine 1751 Protonation oxazoline cleavage 2876 Protonation rate hydronium gas 1518

Protonation thermodn ethylenediaminediacetic acid thermodn 113 Protonation thermodn triethylenetetramine 1785 Protonation thiohydantoin 1980

Protoporphyrin copper kinetics 2916 Pseudoanthoxanthin Gerardia 1707 Psoralen mass spectra 1995

Pulse radiolysis amine solvated electron 2013 Pumice molybdenum oxide ESR manganese 2779 Pummerer cyclization benzylsulfinylbenzoic acid 2404 Pummerer cyclization cysteinylglycine sulfoxide 2412 Pummerer reaction mechanism diastereotopism 2397 Pummerer reaction mechanism regiochem 2388 Pummerer rearrangement 213 Pummerer rearrangement chlorosulfonium chloride

Pummerer rearrangement methylthiomethylpyridine

Purine mononucleotide free energy assocn 1986 Purity assay phthalocyanine pigment 2546 Pyranalkanoate 1743 Pyranobenzopyranone prepn reaction 3292 Pyranoindole oxidn 3296 Pyranol tetrahydro 1025 Pyrazine polymorph disorder structure 3056

Pyrazinone dihydro prepn mass spectra 2696 Pyrazolato binuclear palladium platinum complexes correction 796

Pyrazolato platinum palladium ligating property 3237 Pyrazole palladium complex 2986 Pyrazole photolysis thermolysis 1186 Pyrazole system macrocyclic 1897

Pyrazoline substituent optical rotation 360 Pyrazoloazepinone NMR antiinflammatory analgesic

Pyrazolol prepn cycloaddn 904 Pyrazolyl bridged nickel nitrosyl 3090 3099 Pyrazolyl cobalt iron nitrosyl complex 3119 Pyrazolyl gallate nickel complex 3107

Pyrazolyl gallato methyl ethanolamino structure 1335 Pyrazolyl gallato nickel structure 1823 Pyrazolyl metal dimer 2520

Pyrazolylgallato iron aminoethanolato nitrosyl structure 3113

Pyrazolylmethylgallate ligand 139 Pyrazolyphosphine tungsten carbonyl structure 2285 Pyrene ferrocene hydrogenation ligand exchange 933 Pyridazinophthalazine 3320 Pyridine aldoxime conformation 2135

Pyridine aminonitro acid chloride 1153 Pyridine chloro bridged platinum complex 682

Pyridine chloroethyldihydro reaction nucleophile 44 Pyridine cobalt fluorophosphate structure 135

Pyridine dihydro chromium carbonyl 300 Pyridine heat soln sulfur dioxide 1319 Pyridine imino tautomer 2342 Pyridine palladium platinum NMR 958 Pyridine pyridylcarbonylaminotetrahydro redn 2981 Pyridine solvolysis methoxybenzyl chloride kinetics 2646

Pyridine transition metal complex 394 Pyridinealkanoate hydrogenation 1977 Pyridinecarboxaldehyde oxime NMR 2135 Pyridinedicarboxylato lead aqua crystal structure Pyridinium anisidinium carboxylate salt NMR 2140

Pyridino dihydro indolylethyl 289 Pyridobenzothiazine lithiation sulfonation 2371 Pyridoindole arenesulfonyl azide 558 Pyridoxal phosphate manganese NMR 1050 Pyridoxine metal binding carbon NMR 2118 Pyrimidine cyanoimino 2593 Pyrimidine platinum complex isomer 526 Pyrimidine proton exchange LFER 2783

Pyrimidinethione prepn spectra 2734 Pyrimidone methyl proton exchange 2783
Pyrolysis ammonia shock tube 689
Pyrolysis cyclopentane shock wave 1324
Pyrolysis ethylgallium 3178
Pyrolysis trifluoroacetaldehyde butyl peroxide 2201
Pyrolysis trifluoroacetaldehyde butyl peroxide 2201

Pyrrolealkanoate hydrogenation 1977 Pyrrolecarboxylate reaction acetylenedicarboxylate rearrangement 2743

Pyrrolidinealkanoic acid 1977 Pyrrolidinecarbodithioato copper ESR 2379 Pyruvate phosphono prepn reductive amination 3216 Quadrigemine A intermediate synthesis 1694

Quadrupole ion storage mass spectroscopy 2108 Quantum theory unimol reaction 2793

Quassin seco deriv 3346 Quaternary ammonium mercury DMF capacitance

Quenching ketone triplet alkene 342 Quinoline tosylimino 558

Quinolinol cobalt complex stability extn 580 Quinolizidine allyl oxo prepn disproportionation 2114 Quinone photoredn 2971

Quinoxalinium complex TCNQ 1033 QUISTOR ion mol reaction 2108 Radiation laser cyclobutanone 1511 Radical adduct carboxylic acid ESR 1500

Radical aryl formation dediazoniation 2172 Radical ethylpentyl chlorine abstraction 2578 Radical formation photolysis deoxybenzoin 2812

Radical isotropic hyperfine coupling 3126
Radical reaction copper phenoxide 890
Radical scavenger thermolysis cyanopropoxypiperidine

Radiolysis amine solvated electron 2013

Radiolysis isobutene rare gas sensitized 2633 Radiolysis perfluorocarbon fluorescence magnetic field 3023

Raman benzene halogen 1814 Raman beryllium chloride hydrate 913 Raman hydrogen oxalate 876

Raman Hydrogen oxalate 876
Raman IR mercury acetate phosphine 83
Raman mercury chloro perchlorato phospine 2217
Raman paratoside hydrogen bond 2640
Raman supermol structure ionomer 2518
Raman tert butyl chloride polymorphism 846
Raman tribromochalcogen fluoroarsenate 3230
Raman trioxane 711
Raman trioxane pressure 2869

Raman trioxane pressure 2869

Raney nickel cleavage thiomalonate 2522 Rare gas sensitized radiolysis isobutene 2633 Rat toxicity prevention penicillamine nickel 1411 Rate dissocn high pressure calcn 1731 Rate reaction detn current modulation 785 Rate reaction hydrogen atom olefin 777

Rate recombination calcn 1167 Rate unimol reaction 1723 Reaction const mol complex 1418

Reaction normal mode analysis unimol 1723 Reaction probability function detn 2458 Reaction unimol collision quantum theory 2793 Reactivity allyl alc solvated electron 839

Reactivity oxygen photolysis nitrous oxide 949 Reactivity structure benzoxazole NMR 937 Rearrangement acetolysis trianisylvinyl cation 1384 Rearrangement allyloxoquinolizidinium 2114

Rearrangement azepine 44

Rearrangement benzindoline 1861 1866 Rearrangement Boulton Katritzky hydroxynitrobenzo= furoxan 2512

Rearrangement butyl dediazoniation 2172 Rearrangement catharanthine 2572 Rearrangement Claisen allyloxy 3304

Rearrangement Claisen Eschenmoser allal 1746 Rearrangement Claisen glycal ester enolate 1743 Rearrangement epoxy sulfoxide sulfone 258

Rearrangement imidazole thio 822 Rearrangement methanolysis silyltritylcytidine 2230

Rearrangement Pummerer chlorosulfonium chloride

Rearrangement Pummerer methylthiomethylpyridine

Rearrangement pyrazole 1186 Rearrangement pyrrolecarboxylate reaction acetylened= icarboxylate 2743

Rearrangement regioselectivity photolysis dihydrocya= nobenzobarrelene 2804 Rearrangement sterol cyclohexanediol mechanism 304

Recombination mechanism rate calcn 1167 Redn allyloxoquinolizidine 2114

Redn borohydride pyridylcarbonylaminopyridine 2981

Redn borohydride stereoselectivity cyanocyclohexanone

Redn chlorosulfonylethyl sulfone 1206 Redn cobalt complex chromium 2 1765 Redn cyclic ketone diaxial interaction 2848 Redn halophenylsulfonyl aziridine 1958

Redn hydride homoestrapentaenedione regiochem

Redn iron phenanthroline iodide 2065 Redn lead ethylene glycol 1801 Redn nitrotoluene hydrazine nickel 3047

Redn nitrous oxide chromium catalysis 718 Redn polarog anthrapurpurin complexon 3243 Redn polarog phenolphthalein deriv indicator 1294

Redn rhenium 4 halo pentanedionato 1252 Redn styryl ketone phenylethanol 218

Reductive amination phosphonopyruvate 3216 Regiochem Diels Alder vinyldihydronaphthalene benzo= quinone 3308 Regiochem Pummerer reaction 2388

Regioselectivity rearrangement photolysis dihydrocya= nobenzobarrelene 2804

Regioselectivity rearrangement Pummerer electronega= tivity 3193

Relaxation anisotropy carbon adamantane 1224 Relaxation dielec disubstituted benzene 2843 Relaxation magnetic manganese pyridoxal phosphate

Relaxation magnetic nucleic acid base 1075 Relaxation rate unimol reaction 1723 Relaxation rotational vibrational diat mixt 1115

Reorientation correlation function NMR 2329

Reorientation triazine NMR 128
Residual autohydrolysis lignin characteristic 2612
Resoln nickel macrocycle Schiff base 883
Resonance energy perfluorobenzene 685
Rhamnopyranose tetrasaccharide synthesis 3073
Rhamnose disaccharide Shigella antigen prepn 662
Rhenate chloro pentanedionato 1252
Rhenium bromo carbonyl pyrazolylphosphine structure 2285

Rhenium bromo carbonyl pyrazolylphosphine structure Rhenium pentanedionato 1252 Rhizopus steroid hydroxylation 1585 Rhizopus steroid metab 436 Rhodium catalyst polymn norbornene 2022 Rhodium catalyst redn phenylpropenone 218 Rhodium tertiary phosphine complex 180 Ribose hydroxymethylation formaldehyde 384 Ring A arom steroid regioselective prepn 3308 Ring cleavage halonortricyclene deuteration 2885 Ring cleavage mol ion 348 Ring cleavage oxazoline acid 2876 Ring cleavage polymn norbornene 2022 Ring closure alkylnaphthalenone 1064 Ring closure benzoxazonine 3296 Ring expansion oxo steroid 1557 Ring expansion tricyclodecanedione 2669 Roemerine 1720
Rotation barrier dichlorophenyl heterocycle 355
Rotation barrier halothiophenol 1421 Rotation barrier hydroxyl sulfhydryl 450 Rotation barrier vinyl amide NMR 2239 Rotational diffusion adamantane 1224 Rotational vibrational relaxation diat mixt 1115 Rotational viorational relaxation diat mixt 1115
Ruthenium catalysts polymn norbornene 2022
Ryanodol formation 3348
Rydberg state potential energy amidogen '3182
Safety chlorophenylethyl hydroperoxide prepn 1233
Safety cyanogen azide 2342
Safety polymeric peroxide 3272
Safetyleta complexation boxic acid 920 Salicylate complexation boric acid 920 Salt surface desorption nonag, solvent 856 Scaled particle theory thermodn transfer 71 Scattering electron cross section alkane 2626 Schiff base cycloaddn acryloyl chloride 1945

Scattering electron cross section alkane 2626 Schiff base cycloaddn acryloyl chloride 1945 Schiff base macrocycle nickel resoln 883 Schmidt steroid 1557 Scrambling acetolysis trianisylvinyl bromide 1384

Secoandrostatrienetrione cyclocondensation stereochem 1397

Secodine synthesis 289

Secohomoestratrienal prepn cyclocondensation regiochem 3308

Selenate electrosorption platinum isopotential point 2560

Selenenyl addn propene stereochem 2180 Selenide diphenyl conformation 2967

Selenide electrosorption platinum isopotential point 2560

Selenide isothiocyanatoalkyl thiocyanatoalkyl 2145 Selenide phosphorus solvation NMR 754 Selenite electrosorption platinum isopotential point 2560

Selenium tribromo fluoroarsenate fluoroantimonate

Selenocyanato transition metal complex 394
Self assocn thermodn purine mononucleotide 1986
Semicentennial NRCC journals 1929-79 v Issue 13
Semiconductor TCNQ quinoxalinium complex 1033
Semiquinone radical CIDEP 2971
Sensitizer photochem hydrogen sulfide 2991
Sesquiterpene barbatene total synthesis 3343
Sesquiterpene lactone degrdn 213
Sesquiterpene spirovetivane synthesis 1579

Shigella antigen rhamnose disaccharide prepn 662 Shigella antigen tetrasaccharide synthesis 3073 Shock tube pyrolysis ammonia 689 Shock tube pyrolysis ammonia 653 Shock wave pyrolysis cyclopentane 1324 Silane insertion fluorosilyl 994 Silicon chalcogenide deriv NMR 3253 Silicon hydrogen bond insertion fluorosilyl 994 Silicon nitrogen double bond 1162 Silver fluoromethanesulfonate 326 Silver nickel thiocyanate coordination structure 3061 Silyl protecting group nucleoside nucleotide 2230 Silylamine vibration 1779 Silylbutane autoxidn kinetics 2484 Silylcarbodiimide bistrimethyl mass spectra 1162 Silylperoxy radical prepn ESR 2761 Silylphosphine cyclic molybdenum structure 1909 Silvltritylcytidine rearrangement methanolysis 2230 Sodium hydroxide polarog drop anomaly 565 Sodium interface liq crystal surfactant 747
Sodium perchlorate mercury capacitance DMF 2268
Solid soln hydroxylapatite chlorapatite soly 1919
Soln alkali halide viscosity 3247
Soln hagt horgaic soid because 500 Soln heat benzoic acid benzene 530 Soln heat copper sulfate hydrate 1926 Soln solid thermodn hydroxylapatite 2662 Soln thermodn sulfur dioxide 1319
Solute solvent interaction free energy 500 Solvate butylammonium fluoride oxime 1481 Solvated electron allyl alc reactivity 839 Solvated electron amine radiolysis 2013 Solvated electron IR UV 591 Solvation fluoromethoxide carboxylic acid 473 Solvation phosphorus selenide NMR 754 Solvation salt desorption surface nonag 856 Solvent chymotrypsin enantiomer specificity 2245 Solvent effect acidity aniline 3065 Solvent effect assocn propionate 400 Solvent effect luminescence benzylidenaniline 2539 Solvent effect magnetic relaxation 1224 Solvent effect nuclear spin coupling 1877 Solvent effect partial molal vol 2887 Solvent effect photocycloaddn isophorone 3301 Solvent effect photolysis deoxybenzoin 2812 Solvent effect photolysis nitramine 2936 Solvent effect solvolysis butyl chloride 500 Solvent effect thermolysis cyanopropoxypiperidine

2834
Solvent effect transfer hydrogen halide 961
Solvent extn monothioacetylacetone chelate 3190
Solvent isopropanol hydrolysis enzyme catalyst 2516
Solvolysis benzoate methyl group 2960
Solvolysis butyl chloride solvent effect 500
Solvolysis methoxybenzyl chloride kinetics 2646
Soly hydroxylapatite chlorapatite solid soln 1919
Sorption selenium tellurite platinum 2560
Spectrometry emission analysis phthalocyanine 2546
Spin coupling conformation dihalo diphenylmethane 1881

1881
Spin lattice relaxation nucleic acid 1075
Spin nuclear fluoroform proton coupling 1877
Spin trapping carbon dioxide anion 1150
Spiro adduct nitration 2527
Spirobenzylisoquinoline alkaloid 1545 1569
Spirobenzylisoquinoline x ray 157
Spirolactam haloalkyl cyclization 1201
Spirovetivane sesquiterpene synthesis 1579
Splendidine Abuta structure 1642
Splitting field ligand hexaaquocopper ion 1926
Sponge clionamide structure 2325
Stability const boric acid salicylate 920
Stability polycyclic nonalternating hydrocarbon 2864
Stability protonated diatomic mol cluster 2159

Stannane carbohydrate deriv 38 Stannate fluorosulfato palladium 2058 Stannylbutane autoxidn kinetics 2484 Stannylperoxy radical prepn ESR 2761 Steamed aspenwood dioxane lignin compn 1141 Steel carbon iron dissoln 188 Stereochem acetoxydecarboxylation cyclohexanecarbox= ylic acid 1257 Stereochem benzeneselenenyl thiocyanate addn 2145 Stereochem bidentate organotin complex 2223 Stereochem cleavage deuteration halonortricyclene 2885 Stereochem cyclization 2923

Stereochem cycloaddn Schiff base 1945 Stereochem cyclocondensation secoandrostatrienetrione Stereochem Diels Alder oxobutenoate 1399

Stereochem electrochem trifluoromethylation product Stereochem equilibration cyclohexanediol 304 Stereochem propene addn selenenyl 2180 Stereochem Pummerer reaction 2412

Stereochem sulfenyl chloride allene 119 Stereochem Ugi reaction cyclopeptide prepn 3257 Stereochemistry Bucherer Bergs Strecker 1456 Stereoelectronic control hydrolysis imidate 3262 Stereoselective pentanediol oxidn 1025

Stereoselective prepn unsatd glycopyranoside 1746 Stereoselectivity borohydride redn cyanocyclohexanone

Stereoselectivity control Diels Alder 2564 Stereoselectivity nickel macrocycle amino acid 883 Steric effect alc reaction oxygen 1269

Steric effect borohydride redn ketone 2848 Steric effect chlorinolysis sulfonyl sulfide 2185 Steric effect chlorodecarboxylation 1257

Steric effect hydrolysis benzoate 2960 Steric effect redn butylcyanocyclohexanone 2823 Steric hindrance mixing alkane alkylamine 517

Steroid halo keto carbon 13 NMR 3069 Steroid homonor carbon NMR 1550 Steroid hydroxylation Rhizopus 1585 Steroid metab Rhizopus 436

Steroid total synthesis 3308

Sterol Dunaliella 2569

Sterol rearrangement mechanism 304 Strecker reaction stereochemistry 1456 Streptomyces caerulomycin A precursor 3200

Structure alkali metal sulfite 899 Structure benzil thiosemicarbazonatocopper 603 Structure benzoxazole reactivity NMR 937

Structure cadmium cytosine chloro 1372 Structure cobalt pyridine fluorophosphate 135 Structure copper phenylenebisbenzothiazole chloro

Structure dicyclohexanotetroxecane 2154 Structure disorder pyrazine polymorph 3056 Structure dithiametacyclophane 3080 Structure double layer mercury DMF 2268 Structure gallium ethanolaminato methyl 586

Structure iron aminoethanolato nitrosyl pyrazolylgalla= to 3113 Structure iron nitrosyl pyrazolyl 3119

Structure lead pyridinedicarboxylato aqua 2498 Structure mercury chloro perchlorato phosphine 2217 Structure methylpyrazolylgallatonickel 1823 Structure molybdenum carbonyl cyclodiphosphatetrasic

lahexane 1909 Structure molybdenum ethanolaminogallato allyl car= bonyl 1335

Structure molybdenum methylpyrazolylgallate carbonyl

Structure NADP manganese complex 2434 Structure nickel morpholinecarbodithioato 2379 Structure nickel pyrazolyl bridged nitrosyl 3090 3099 Structure nickel silver thiocyanate coordination 3061 Structure oxadiazinium deriv bromide 3157 Structure pentaiodinium fluoroantimonate 968 Structure pentasulfur hexanitride 1286 Structure platinum diethylenetriamine guanosine 57 Structure potassium fluorophosphate 886 Structure protonated diatomic mol cluster 2159 Structure sulfur nitride phosphine imidato 3171 Structure thiocyanato phenylphosphine mercury 2555
Structure tungsten pyrazolyphosphine carbonyl 2285
Structure water glycol dielec const 608
Styryl ketone redn phenylethanol 218
Styryl ketone redn phenylethanol 218 Styryl ketoxime acyclic mass spectra 2908 Substituent effect acidity function 1980 Substituent effect autoxidn bromobutane 2484 Substituent effect chlorodecarboxylation 1257 Substituent effect diphenylmethylene triplet 2652 Substituent effect ionization toluenesulfonic acid 853 Substituent effect magnetic relaxation 1224 Substituent effect methyl steroid NMR 27 Substituent effect redn cobalt complez 1765 Substituent effect ring expansion 1557 Substituent oxazole deriv NMR 937 Substituent pyrazoline optical rotation 360 Substitutent effect benzylidenaniline luminescence

Substitution benzylphenyldimethylammonium thiophe= noxide kinetics 1354

Substitution carbohydrate triphenyltin 38 Substitution electrophilic excess acidity 2944 Substitution electrophilic thiomalonate 2522 Substitution hydride chlorosulfonyl group 1206 Substitution isotope effect deuterium 1089 Substitution nucleophilic arenecyclopentadienyliron

cation 946 Substitution nucleophilic steric effect 2185

Substitution nucleophilic sulfide chlorinolysis 3193 Substitution nucleophilic trispentafluorophenylphosph=

Subtilisin atalyst hydrolysis kinetics 2516 Succinic acid methylene hydrogenation 180 Succinimide bromo photolysis 1967 Succinimidyl ester 2775

Sucrose synthesis intermediate structure 653 Sucrose total synthesis 645 Sulcatol synthesis 233

Sulfate beryllium hydrate vibrational spectra 913 Sulfate extn chromium phosphate 3011 Sulfate hydrate copper heat soln 1926

Sulfene reaction sulfur dioxide 3278 Sulfenyl chloride addn allene 119 Sulfenylation catalyst immobilized fluoride 2629

Sulfhydryl group rotation methoxythiophenol 450 Sulfide butyl photosensitizer butene isomerization

Sulfide diphenyl conformation 2967 Sulfide hydrogen corrosion carbon steel 188 Sulfide methyl complex boron 1122

Sulfide org chlorinolysis 3193 Sulfide pressure coeff 3135 Sulfide sulfonyl chlorinolysis steric effect 2185 Sulfinic acid alanine redn mercaptoethanolo 2073 Sulfite alkali metal structure 899

Sulfite dimethyl aq thermodn formation 454 Sulfite oxidn alk bromite 1524 Sulfohaloform reaction mechanism 3193 Sulfohaloform reaction steric effect 2185

Sulfolane heat soln sulfur dioxide 1319 Sulfonation pyridobenzothiazine 2371

Sulfone benzocyclobutyl phenyl reaction 1462

Sulfone chlorosulfonylethyl redn 1206

Sulfone epoxy 258

Sulfoniopropanol conformation NMR 2426 Sulfonium benzyl Pummerer mechanism 2388

Sulfonium ethoxy deprotonation diastereotopism 2397 Sulfonium phosphine imidato sulfur nitride 3171

Sulfonyl chloride org 3193 Sulfonyl sulfide chlorinolysis steric effect 2185

Sulfonylpropanol conformation NMR 2426 Sulfonylpropanol conformation ree energy relation 853 Sulfoxide cysteinylglycine Pummerer cyclization 2412

Sulfoxide epoxy 258 Sulfur dioxide heat soln 1319

Sulfur dioxide phosphorus selenide complex 754

Sulfur dioxide phosphorus selenide comples correction

Sulfur dioxide reaction sulfene 3278 Sulfur hydrogen bond insertion fluorosilyl 994 Sulfur nitride phosphine imidato 3171

Sulfur nitride prepn structure 1286 Sulfur nucleophile phenyltrichloroethanol 444

Sulfur transfer agent thioglycolic acid 3193 Sulfuric acid lead sulfate soly 974 Sulfurous acid tautomer formation thermodn 454

Sulfuryl chloride reaction tetrasulfur pentanitride 1286

Supermol structure ionomer Raman 2518 Surface desorption salt nonaq. solvent 856 Surface electrode phase change 1304

Surfactant cationic liq crystal interface 747 Synthesis electrochem heteronuclear metal carbonyl

2196

Synthesis org alc dehydrogenase deriv 2533 Tantalum bromide thermodn 2665

Tautomer acidity enol keto 1177 Tautomer imino pyridine 2342

Tautomer sulfurous acid formation thermodn 454
Tautomerism pyrazole 1186
Tautomerization phosphonate phosphite 236
TBP adsorption interface dodecane water 1218

TCNQ complex quinoxalinium 1033 Telluride diphenyl conformation 2967

Tellurite electrosorption platinum isopotential point

Tellurium tribromo fluoroarsenate 3230

Terphenyl solvent dielec absorption 2843
Tert butyl chloride polymorphism Raman 846
Tetrabutylammonium iodide nickel chloride melt 147

Tetracarbonylferrate reaction thicketone 598 Tetracyanoethylene furan complex absorption spectra

Tetraethylammonium bromide adsorption mercury

electrode 330 Tetraethylammonium fluoride phenol alkylation 1887 Tetrahydroborate alkali hydrogen deuterium exchange

Tetraphenyl carbon acetonitrile thermodn transfer

Tetraphenylarsenic ion thermodn transfer 71 Tetraphenylborate ion thermodn transfer 71
Tetraphenylporphin iron 1804
Tetraphenylporphin iron 1804

Tetrasaccharide Shigella antigen synthesis 3073 Tetrazole tetracyclic 3320

Tetroxecane cyclohexano structure 2154

Thallium hydroxysuccinimide reaction acyl chloride

Thermal decompn cyanopropoxyoxotetramethylpiperi= dine 2834

Thermal decompn oxadiazolinone 2681 Thermal decompn oxidn diazirine 1299 Thermal decompn. gallium triethyl 3178 Thermal dehydrochlorination chloronorbornene chloro= cyclopentane 2621

Thermal explosion methyl isocyanide 2677
Thermal isomerization allyl isocyanide 2482
Thermal pressure coeff app 3135
Thermodn adsorption TBP dodecane water 1218

Thermodn parameter furan tetracyanoethylene complex

Thermodn protonated diatomic mol cluster 2159 Thermolysis arylmethylphenyldiazobutene kinetics mechanism 1403

Thermolysis butyl ethylperoxyhexanoate toluene 2578 Thermolysis dioxetane 283

Thermolysis halophenylsulfonyl 1958 Thermolysis oxadiazolinone LFER 2681

Thermolysis ozonide 3272

Thermolysis photolysis pyrazole 1186
THF aq heat capacity compressibility 1006
THF lignan NMR conformation 441
THF soln sulfur dioxide 1319
THE solvetor 1501

THF solvated electron 591 Thiaalkane expansion 3135

Thiaazabicyclooctene 44 Thiadiazinone 444

Thiazinone Pummerer product 2412 Thiazole thiophenacylidene 207

Thiazolidinone 444

Thioacetate phenylsulfonylethyl hydrolysis dimerization

Thioborate methyl reaction isothiocyanato borane

Thiocarbamate mixed ligand arsenic antimony 767
Thiochromanone cyclization boron fluoride acetic
anhydride 3292

Thiochromanone photoelectron UV spectra 638

Thiochromone photoelectron UV spectra 638 Thiocyanate benzeneselenenyl addn olefin 2145 Thiocyanate benzeneselenenyl addn phenylpropene 2180

Thiocyanate nickel silver coordination structure 3061 Thiocyanate bridged mercury structure 2555

Thiocyanato transition metal complex 394 Thiocyanatoalkyl selenide 2145

Thioester thione reaction tetracarbonylferrate 598

Thioglycolic acid sulfur transfer agent 3193 Thiohydantoin protonation 1980

Thioimidazole prepn 813 Thioimidazole rearrangement 822

Thioketone reaction tetracarbonylferrate 598 Thiol reaction nitrosochloro glycal 1056

Thiomalonate electrophilic substitution 2522

Thiomorpholinone 444
Thionyl chloride chlorination adenine nucleoside 274 Thionyl chloride reaction tetrasulfur pentanitride 1286

Thiophenacylidenethiazole 207 Thiophene dihydro carbon NMR 131

Thiophene dihydro dioxide electrochem trifluorome= Thiophenol halo conformation NMR 1421
Thiophenol halo conformation nMR 1421

Thiophenoxide substitution ammonium benzyl 1089 Thiophenoxide substitution benzylphenyldimethylam= monium kinetics 1354

Thiopyran thiazolylmethylene 207

Thiosemicarbazonatocopper benzil structure 603 Thiosulfate reaction alk bromite 1524

Thiourea arylpropenone cyclocondensation 2734
Thiourea platinum complex 526
Thiourea solvolysis methoxybenzyl chloride 2646

Thymolphthalein polarog redn 1294 Tiffeneau Demjanov oxo steroid 1557

Tin bidentate complex configuration 2223

Tin chloride phenol cocatalyst 2355

Tin diacyloxy 160 Tin tetraalkyl alkane heat mixing 517 Titanium oxide catalysis 320

Toluamide hydrogen exchange isomerization 2896

Toluene abstraction ethylpentyl LFER 2578 Toluene butylamine vol mixing 1915

Tolylalkanoate nitration 2527

Tolylbutanol nitration 2527

Tosyloxymethyltetralone alkylation 2249 Total synthesis barbatene sesquiterpene 3343

Total synthesis isolongifolene 2249

Total synthesis khusimone 708 Toxicity prevention rat nickel penicillamine 1411

Trace metal detn phthalocyanine pigment 2546 Transannular cyclization nitroso alkenyl 2923

Transfer free energy glycoxide ion 2470 Transfer free energy single ion 2476

Transfer proton carbonyl compd 1177

Transfer thermodn hydrogen halide glycerol 961 Transfer thermodn tetraphenyl carbon acetonitrile

Transfer thermodn tetraphenylarsenic tetraphenylbo= rate ion 71

Transition metal ethylenediaminediacetic acid complex

Transition metal oxide catalysis 320

Transition phase thermodn manganese carboxylate

Transition phosphorus hydride deuteride 2491 Transition state benzylphenyldimethylammonium substitution 1354

Transition state cleavage oxirane 2444 Transition state MO oxadiazolinone 2681 Transition state structure LFER 255

Transport non Gaussian glass 197 Transport potential barriers differential equation

1329 Trapped electron glass 1488

Trapped electron glass spectra 197 Trapping spin carbon dioxide anion 1150 Triazine mol reorientation NMR 128

Triazole tetracyclic 3320 Triazoledione reaction alc 2727

Tribromochalcogen fluoroarsenate 3230 Tricyclodecanedione ring expansion 2669

Tricycloheptanone 1668

Triethylenetetramine metal complex stability 1785 Triethylenetetramine nickel complex stability 1411 Trifluoroacetaldehyde butyl peroxide pyrolysis 2201 Trifluoromethylation electrochem unsatd compd 2617

Triketone enolization kinetics equil 1177 Trimerization heat benzoic acid benzene 530

Trioxane Raman 711

Trioxane Raman pressure 2869

Triplet diphenylmethylene substituent effect 2652

Trisilylamine normal coordinate 1779
Tropinone Bucherer Bergs Strecker reaction 1456
Tropone methoxy carbon NMR 1949
Tryptophan binding NAD 2297

Tryptophan protein bromosuccinamide fluorescence

quenching 1471 Tubulosine total synthesis 1679

Tungsten carbonyl methylpyrazolylaminoethanolatogal= late 167

Tungsten malate complex 773

Tungsten methylpyrazolylgallate nitrosyl 139 Tungsten pyrazolyphosphine carbonyl structure 2285

Tunneling protonation nitrotoluene tetramethylguani= dine 669

Tyrosine acetyl ester hydrolysis 2516 Tyrosine peptide complex correction 2538 Tyrosine peptide complex metal 104 Tyrosine resoln nickel macrocycle 883 Ugi reaction cyclopeptide prepn stereochem 3257 Ultrasonic velocity water THF mixt 1006

Ultrasound excess velocity deuterated water 2333 Ultrasound velocity deuterated water polemic 2335 Unimol reaction collision quantum theory 2793

Unimol reaction normal mode analysis 1723

Unsatd compd trifluoromethylation electrochem 2617 Unsatd glycopyranoside stereoselective prepn 1746

Uracil anhydro arabinosyl 2191 Uracil kinetics bromination 626

Urethane foam sponge extn iron 2032 UV assocn ferrocyanide charge transfer 2079

UV coumarin chromene 1377 UV nitroaniline deriv 2167

UV solvated electron 591 UV spectrum autohydrolysis lignin 2603

UV thiochromone thiochromanone oxide 638 Vanadium pentoxide catalyst isopropanol decompn

Vapor pressure DMSO 705 Vapor pressure isotope effect ethanethiol 1350 Vapor pressure sulfur dioxide soln 1319

Velocity ultrasound deuterated water polemic 2333 2335

Vetispirene synthesis 1579 Vetivone synthesis 1579

Vibration energy level methane deriv 2321 Vibration mol hydrogen fluoride complex 1341

Vibration silylamine 1779

Vibrational rotational relaxation diat mixt 1115 Vicinal hydrogen activation bromobutane 2484

Vinamidine total synthesis 1682

Vindoline coupling norcatharanthine oxide 2572 Vinyl acetate electrochem trifluoromethylation 2617 Vinyl acetate ozonolysis 3272

Vinyl amide rotation barrier NMR 2239 Vinyl chloride photolysis IR laser 953

Vinylcyclopropylethanol oxymercuration cyclization

Vinyldihydronaphthalene benzoquinone Diels Alder regiochem 3308

Viscosity aq ammonium chloride 702

Viscosity aq butyl alc halide 3247 Viscosity binary melt 147

Viscosity cumene dioxane system 678 Viscosity nitrate hydrate melt 2028

Visible electron lithium chloride glass 1758

Vitamin E lecithin membrane 458 Vol mixing alc picoline 2386

Vol mixing hydrocarbon butylamine 1915 Vol molar aq ammonium chloride 702

Vol molar aq electrolyte 2798 Vol molar nitrate hydrate melt 2028 Vol partial molal alkane alkanol 2887

Vol partial molal org compd 2585 2892 Voltammetry cyclopropane oxirane diphenyl 2098

Volumetric entropy melting org compd 2010 Water acid hydrogen bond IR 487

Water assocn propionate 400

Water deuterated ultrasound excess velocity 2333

Water deuterated ultrasound velocity polemic 2335 Water interface liq crystal surfactant 747 Water isotope hydrophobic hydrophilic interface 478

Water solvated electron 591 Water structure glycol dielec const 608 Wessely oxidn product Diels Alder 2853

Wittig glucose carboxymethylene 1746 Wolff Kishner redn allyloxoquinolizidine 2114

X ray aminomesityloxybenzoate 2767 X ray condensed oxazolone 157

- X ray diphosphatetrasilacyclohexane deriv 174
 Xalpha scattered wave MO cluster 1826
 Xanthate thiocarbamate antimony complex 767
 Xanthotoxin mass spectra 1995
 Xylene butylamine vol mixing 1915
 Xylenol oxidn alkene intramol cycloaddn 2853
 Xylocarpus acetoxydihydronomilin mexicanolide 3088
 Xylofuranose methyl 2818
 Zero charge potential mercury DMF 2268
 Zinc complex ethylenediaminediacetic acid thermodn 113
- Zinc electrooxidn cobalt manganese carbonyl 2196 Zinc extn monothioacetylacetone 3190 Zinc oxide catalysis 320 Zinc phenylenebisbenzothiazole complex 1 Zinc pyrazolato bridged palladium platinum 3237 Zinc selenocyanato thiocyanato complex 394 Zinc triethylenetetramine complex thermodn 1785 Zwanzig theory ion mobility 1127 Zwitterion arene iron 946

